



QUALIFICATIONS PACK - OCCUPATIONAL STANDARDS FOR HANDICRAFTS AND CARPET INDUSTRY

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
- POS are performance standards that individuals must achieve when carrying out functions in the workplace, together with specifications of the understanding

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Introduction

Qualifications Pack – Furnace Operator

SECTOR: HANDICRAFTS AND CARPET

SUB-SECTOR: Ceramics, Glassware

OCCUPATION: Furnace Operation

REFERENCE ID: HCS/Q9601

ALIGNED TO: NCO-2015/8181.1200

Brief Job Description: The individual at work is responsible for operating a furnace. The individual must understand the different kinds of furnaces used in handicrafts. He should have proper idea of the requirement of flame temperature inside the furnace as per product specifications.

Personal Attributes: The job requires the individual to have the ability to work in high temperature and high decibel noise environment near furnaces, with attention to details and quick decision making capabilities.





Qualifications Pack Code	HCS/Q9601		
Job Role	Furnace Operator		
Credits(NSQF)	TBD	Version number	1.0
Sector	Handicrafts and Carpet	Drafted on	27/02/2015
Sub-sector	Ceramics, Glassware	Last reviewed on	28/06/2018
Occupation	Furnace Operation	Next review date	28/06/2020

Job Role	Furnace Operator
Role Description	Operate and maintain furnace
NSQF level	4
Minimum Educational Qualifications	Basic Literacy and Numeracy
Maximum Educational Qualifications	Not Applicable
Training (Suggested but not mandatory)	Not Applicable
Experience	Minimum 6 months as Furnace operation helper
Applicable National Occupational Standards (NOS)	Compulsory: 1. HCS/N9601 Carry out furnace operations 2. HCS/N9901 Coordinate with colleagues and work as a team 3. HCS/N9902 Maintain safe work environment 4. HCS/N9903 Maintain personal health 5. HCS/N9904 Basic business management
Performance Criteria	As described in the relevant OS units





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	Organizational Context includes the way the organization is structured and how it





Context	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	Technical Knowledge is the specific domain knowledge needed to accomplish the
Knowledge	task in combination with other competencies. It is usually coined with specifically
	designated roles and responsibilities.
Core	Core Skills or Generic Skills as set are group of skills. It is key to working in today's
Skills/Generic	world. These skills are typically needed in any work environment. In the context of
Skills	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	Description
/Terms	3-5-3-1-p-10-1
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



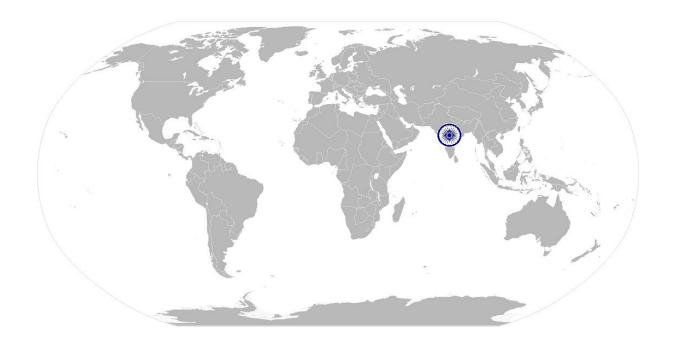






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National Occupational Standard



Overview

This unit is about combustion control inside the furnace for processing different materials as per product specifications. It also involves temperature control at the desired level, control of air compressor and secondary air and level control inside the furnace.







HCS/N9601 Carry out furnace operations

Unit Code	HCS/N9601
Unit Title (Task)	Carry out furnace operations
Description	This unit is about combustion control inside the furnace for processing different materials as per product specifications. It also involves temperature control at the desired level, control of air compressor and secondary air and level control inside the furnace.
Scope	 This unit/ task covers the following: Control the temperature distribution inside the furnace Control the secondary air and exhaust gas recovery Control the flame length Understand the furnace insulation Achieve productivity, quality and safety standards

Performance Criteria(PC) w.r.t. the Scope

Element	Performance Criteria		
Control the		ompetent, the user/individual on the job must be able to:	
temperature	PC1.	Operate the furnace with understanding of controls and specifications	
distribution inside	PC2.	Understand the temperature requirement as per the product requirements	
the furnace		and provide specifications	
	PC3.	Maintain temperature distribution inside the furnace at the optimum level	
	PC4.	Monitor the batch movement inside the furnace	
	PC5.	Control the cooling air inside the furnace	
	PC6.	Control the fuel at each port through burners	
	PC7.	Operate the air compressor	
Control the	PC8.	Control the preheating of secondary gas	
secondary air and	PC9.	Monitor and control the flow of exhaust gas	
exhaust gas recovery	PC10.	Understand and follow the procedure for exhaust gas recovery	
0 111 0	2011		
Control the flame	PC11.	Adjust burner capacity	
length	PC12.	Control the volume of primary air	
	PC13.	Control the flame rotary angle as per requirement	
	PC14.	Achieve the required flame atomising pressure	
	PC15.	Adjust and control the secondary air	
Understand the	PC16.	Understand the insulation for the melting chamber	
furnace insulation	PC17.	Understand crown insulation	
	PC18.	Understand side wall insulation	
	PC19.	Prevent cold air from entering through inlet opening	
	PC20.	Ensure that outlet opening is closed during operation	
Achieve productivity,	PC21.	Operate the furnace and ensure periodical targets are met as per supervisor	
quality and safety		instructions	
standards	PC22.	Deduce any maintenance requirement and ensure that the furnace is	
	•	_	







HCS/N9601		Carry out furnace operations
		operational all the time
	PC23.	Follow the standard operating procedure during furnace operation and avoid
		any damage
	PC24.	Follow standard safety guidelines and mention dos and don'ts for other
		employees who comes near furnace operation area
	PC25.	Ensure adequate fuel supply by informing procurement assistant to avoid
		work delay
Knowledge and Unders	tanding	(K)
A. Organizational		er/individual on the job needs to know and understand:
Context	KA1.	The company's policies
(Knowledge of the	KA2.	The company's code of conduct
company /	KA3.	Organisational culture and typical product profile
organization and	KA4.	Company's reporting structure
its processes)	KA5.	The importance of individual's role in the workflow
	KA6.	Company's daily/monthly targets for different product items
	KA7.	Quality and safety standards
B. Technical		er/individual on the job needs to know and understand:
Knowledge	KB1.	About the different types of melting furnaces
	KB2.	Furnace operation and control
	KB3.	Specifications of a furnace
	KB4.	Basic upkeep of a furnace
	KB5.	Temperature and control requirements for different products
	KB6.	Combustion control inside furnace
	KB7.	Control of primary and secondary air in the furnace
	KB8.	How to operate, control and maintain the furnace
	KB9.	Batch movement inside furnace
	KB10.	Temperature distribution inside furnace
	KB11.	Furnace insulation
	KB12.	Quality standards
	KB13.	Safety regulations to be followed
Skills (S) [Optional]		
A. Core Skills/	Writing	
Generic Skills		er/ individual on the job needs to know and understand how to:
	SA1.	Measure furnace/flame temperature
	SA2.	Measure air compressor
	SA3.	Keep log book for the furnace
	Reading skills The user/individual on the job needs to know and understand how to	
	SA4.	er/ individual on the job needs to know and understand how to: Read and write the job requirement
	SA5.	Read company policy documents
		mmunication (Listening and Speaking skills)
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HCS/N9601	Carry out furnace operations		
	The user/individual on the job needs to know and understand how to:		
	SA6. Seek inputs at assessing problems		
	SA7. Communicate in local language		
	SA8. Educate and inform production team regarding temperature requirement for		
	production of different kinds of products		
	SA9. Educate on precautions to be taken during production to ensure safe		
	working surroundings		
	SA10. Give feedback to production manager regarding the quality of products		
B. Professional Skills	Decision making		
	The user/individual on the job needs to know and understand how to:		
	SB1. Decide on material requirement for furnace operation		
	Plan and organize		
	The user/individual on the job needs to know and understand how to:		
	SB2. Plan for material and time requirement for furnace operation		
	Customer centricity		
	The user/individual on the job needs to know and understand how to:		
	SB3. Customer's preferences on craft products		
	Problem solving		
	The user/individual on the job needs to know and understand how to:		
	SB4. Identify any problems/ issues in the furnace and find solution		
	SB5. Anticipate problems and take necessary actions		
	SB6. Seek assistance from supervisors and technicians to resolve problems		
	Analytical thinking		
	The user/ individual on the job needs to know and understand how to:		
	SB7. Analyse the temperature requirement for various products		
	Critical thinking		
	The user/ individual on the job needs to know and understand how to:		
	SB8. Spot process disruptions and delays		







Carry out furnace operations

NOS Version Control

NOS Code	HCS/N9601		
Credits(NSQF)	TBD	Version number	1.1
Industry	Handicrafts and Carpet	Drafted on	27/02/15
Industry Sub-sector	Ceramics, Glassware	Last reviewed on	28/06/18
Occupation	Furnace Operation	Next review date	28/06/20

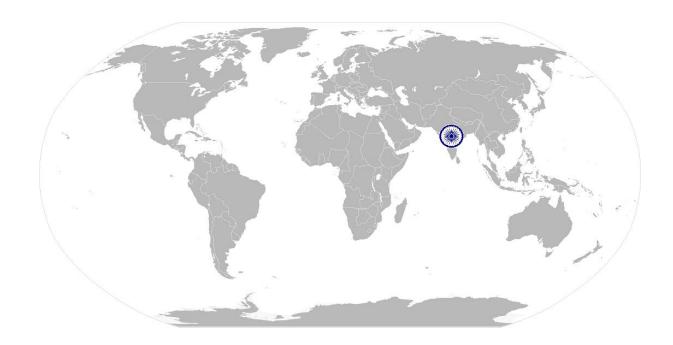






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National Occupational Standard



Overview

This unit is about individual's coordination and communication level with colleagues and superiors so as to achieve the deliverable on time through a smooth workflow.



National Occupational Standards



HCS/N9901

Coordinate with colleagues and work as a team

Unit Code	HCS/N9901
Unit Title (Task)	Coordinate with colleagues and work as a team
Description	This OS unit is about communicating and coordinating with colleagues and superiors in order to achieve smooth and hazard-free workflow during production. It is about the ability to work as a team member, share work and multi-task to meet the deliverables as scheduled with quality requirements, assuring no process disruptions.
Scope	 This unit/ task covers the following: Interact with supervisor or superior Work as a team by coordinating with colleagues within and outside the department Report and document
Performance Criteria(P	C) w.r.t. the Scope
Element	Performance Criteria
Interact with	To be competent, the user/individual on the job must be able to:
supervisor or	PC1. Receive job order and instructions from reporting supervisor
superior	PC2. Understand the work output requirements, targets, performance indicators and incentives PC3. Deliver quality work on time and report any anticipated reasons for delays PC4. Report on any grievances, production defects and any potential hazards
	PC5. Communicate on process flow improvements
	PC6. Communicate on process now improvements PC6. Communicate regarding maintenance and repair schedule proactively to the supervisor PC7. Receive feedback on work standards PC8. Interact and clarify doubts on design, usage of materials & tools, quality &
	standards compliance, etc.
	PC9. Report in time for shortage or need of raw materials
Made as a tage by	PC10. Handover completed work to supervisor
Work as a team by coordinating with	PC11. Communicate with colleagues from within and other departments, clearly and effectively on all aspects to carry out the work among the team
colleagues within and outside the	PC12. Maintain the etiquettes, use polite language, demonstrate responsible and disciplined behaviours towards colleagues
department	PC13. Interact with colleagues from different functions and understand the nature of their work
	PC14. Put team over individual goals and multi-task or share work where necessary supporting the colleagues
	PC15. Resolve conflicts and ensure smooth workflow
	PC16. Interact and understand the production requirement for the day from the
	previous and successive processing department and work accordingly
	PC17. Communicate and discuss work flow related difficulties in order to find







Coordinate with colleagues and work as a team $% \left\{ 1,2,\ldots ,n\right\}$

	solutions with mutual agreement
	PC18. Receive feedback from Quality Control and rework in order to complete work
	on time
	PC19. Share information with colleagues to enable efficient delivery of work
	PC20. Highlight any error of colleagues, help to rectify and ensure quality output
	PC21. Work with cooperation, coordination, communication and collaboration
	towards the shared goals, supporting each other's performance
Report and	PC22. Document all the details accurately relating to one's role as required
Document	PC23. Report on the completed work and keep it in records
Knowledge and Unders	standing (K)
A. Organizational	The user/individual on the job needs to know and understand:
Context	KA1. Company's policies on preferred language of communication, incentives,
(Knowledge of the	quality standards, personnel management, reporting and escalation matrix
company /	policy
organization and	KA2. Company's standard operating procedure (SOP), and the risk and impact of
its processes)	not following them
	KA3. Procedures for working with colleagues, his/her role and responsibilities in
	relation to this
	KA4. Organizational hierarchy and the line reporting structure
	KA5. Procedures to report employment related issues and to deal with conflicts
	KA6. Workflow involved in the company's production process and the sequence of
	operations
	KA7. Importance of the individual's role in the organizational workflow and details
	of the individual responsibilities
	KA8. Work target and review mechanism
	KA9. Common potential hazards in the work place and the procedures to deal with
	them
	KA10. Tools and equipments handling procedure
	KA11. Documentation procedures as required
B. Technical	The user/individual on the job needs to know and understand:
Knowledge	KB14. Effective communication with various categories of people and the different
	departments in the organization
	KB15. The need for building team coordination and working effectively in a team for
	organizational and individual success
	KB16. Basics of helping colleagues with specific issues and problems, meeting
	quality and time standards as a team
	KB17. Importance of listening actively to team members
	KB18. Proper tone and pitch for communication, ethics and discipline for
	professional success
	KB19. Effective working relationship with mutual trust and respect within the team







Coordinate with colleagues and work as a team

	Expressing and addressing grievances appropriately, dealing with difficult		
	work relationships and managing the internal conflicts effectively		
Skills (S) [Optional]			
A. Core Skills/	Reading skills		
Generic Skills	The user/ individual on the job needs to know and understand how to:		
Generic Skins	SA1. Read job sheets, design sheet and information displayed at the workplace		
	SA2. Read notes/comments from the supervisor		
	SA3. Read and understand manuals, health and safety instructions, memos etc.		
	Writing skills		
	The user/ individual on the job needs to know and understand how to:		
	SA4. Carry out documentation in accordance to one's role		
	Communication skills		
	The user/individual on the job needs to know and understand how to:		
	SA5. Interact with team members to work efficiently		
	SA6. Communicate effectively with supervisor		
B. Professional Skills	Decision making skills		
	The user/individual on the job needs to know and understand how to:		
	SB1. Spot and communicate potential areas of disruptions to work process and		
	report the same SB2. Report to supervisor and deal with a colleague individually, depending on the		
	type of concern		
	Plan and Organize		
	The user/ individual on the job needs to know and understand how to:		
	SB3. Coordinate with different departments, multi task and deliver product to next		
	work process on time		
	SB4. Contribute to quality of team work and achieve smooth workflow		
	SB5. Share work load as required		
	Problem solving		
	The user/ individual on the job needs to know and understand how to:		
	SB6. Resolve recurring inter-personal conflicts		
	Analytical thinking The user/ individual on the job needs to know and understand how to:		
	SB7. Improve work processes by interacting with others and adopting best		
	practices		
	Critical thinking		
	The user/ individual on the job needs to know and understand how to:		
	SB8. Spot process disruptions and delays and report and communicate with		
	solutions		







Coordinate with colleagues and work as a team

NOS Version Control

NOS Code	HCS/N9901		
Credits(NSQF)	TBD	Version number	1.0
Industry	Handicrafts (Ceramics), Handicrafts (Fashion Jewellery), Handicrafts (Stonecraft), Glassware, Metalware	Drafted on	23/02/15
Industry Sub-sector	Handicrafts	Last reviewed on	23/03/18
Occupation	Production Management, Research and Development, Mixing and Milling, Moulding, Finishing and Painting, Pre- Production, Furnace Operation, Quality Check, Production, Pre - Crafting, Stone Crafting, Mixing, Moulding, Cutting, Smoothening, Finishing, Designing, Metal Casting and Stamping, Metal Craft Making, Cleaning/Polishing/Buffing, Painting and Plating, Packing, Marketing and Merchandising	Next review date	23/03/20

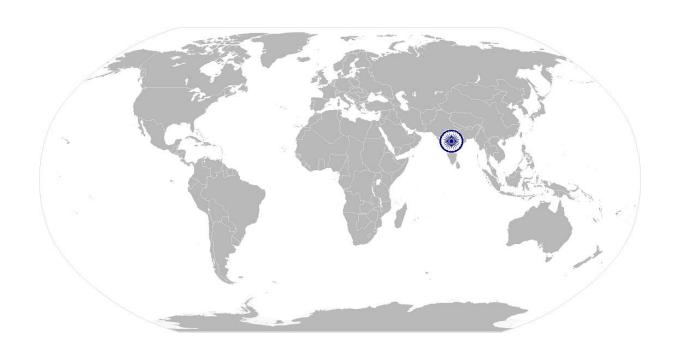






Maintain safe work environment

National Occupational Standard



Overview

This unit is about the individual's effort to maintain safe work environment.







Maintain safe work environment

HCS/N9902 Maintain safe work environment	
Unit Code	HCS/N9902
Unit Title (Task)	Maintain safe work environment
Description	This OS unit is about following adequate safety procedures to make work environment safe.
Scope	This unit/ task covers the following: • Follow safety procedure and practices • Achieve safety standards
Performance Criteria(P	C) w.r.t. the Scope
Element	Performance Criteria
Follow safety procedure and practices	To be competent, the user/individual on the job must be able to: PC1. Comply with safety procedures while on work to prevent accidents PC2. Take adequate safety measures while handling materials, chemicals and tools PC3. Wear appropriate personal protective gears such as gloves, protective goggles, masks etc. while working PC4. Undertake basic safety checks before operation of all tools and electrical equipments PC5. Wear appropriate and recommended clothing as per the work environment PC6. Follow recommended material handling procedure to control material and personal damage PC7. Perform all procedures as per company's work instructions for controlling operational risk PC8. Perform the duties in a manner which minimizes environmental damage PC9. Dispose of waste safely and correctly in a designated area as per company's SOP PC10. Report any accidents, incidents or problems without delay to the supervisor and take necessary immediate action to reduce further danger
Achieve safety standards	PC11. Ensure zero accident at workplace PC12. Adhere to safety standards and ensure no material damage
Knowledge and Unders	tanding (K)
A. Organizational Context (Knowledge of the company / organization and	The user/individual on the job needs to know and understand: KA1. Company's policies on work safety and occupational hazard management KA2. Company's HR policies KA3. Company's reporting structure KA4. Company emergency evacuation procedure to avoid accidental risks to the
organization and	ipan, and country and a second a second and a second a second and a second a second and a second a second and a second a second a second a second a second a second and a second a second a second a sec







Maintain safe work environment

its processes)	worker	
its processes,	Worker	
B. Technical Knowledge	The user/individual on the job needs to know and understand: KB1. How to maintain the work area safe and secure KB2. How to perform the duties in a way to minimize accidental risks KB3. How to handle chemicals KB4. Purpose and usage of protective gears such as gloves, protective goggles, masks, etc. while working KB5. Material handling procedure KB6. Standard Operating Procedure (SOP) of processes KB7. Precautionary activities to be followed in the processes KB8. How to operate tools and electrical equipments KB9. Emergency procedures to be followed in case of an mishap such as fire accidents etc.	
Skills (S) [Optional]		
A. Core Skills/	Reading skills	
Generic Skills	The user/individual on the job needs to know and understand how to: SA1. Read safety instructions, safety signage and safety manuals SA2. Read the usage of various safety todiand equipments Writing skills The user/individual on the job needs to know and understand how to: SA3. Take notes on descriptions and details of various safety precautions and procedures as instructed Communication Skills The user/individual on the job needs to know and understand how to: SA4. Communicate supervisor about the work safety issues SA5. Receive instructions from supervisor on minimizing the accidental risks SA6. Communicate co-workers about the precautions to be taken for accident free work	
B. Professional Skills	Decision Making skills	
	The user/individual on the job needs to know and understand how to: SB1. Select appropriate safety tools and equipments	
	Plan and Organize	
	The user/individual on the job needs to know and understand how to:	
	SB2. Improve work processes by adopting best safety practices	
	Customer centricity	
	The user/individual on the job needs to know and understand how to:	
	SB3. Coordinate with different departments on briefing the safety aspects	
	SB4. Guide the team members on use of various safety tools and equipments	
	Problem solving	

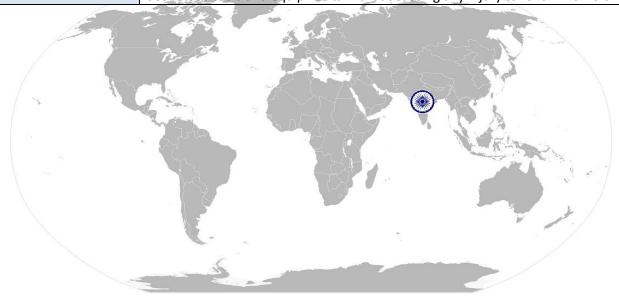






HCS/N9902 Maintain safe work environment

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	The user/individual on the job needs to know and understand how to:
	SB5. Improve work processes by adopting best safety practices
	Analytical thinking
	The user/individual on the job needs to know and understand how to:
	SB6. Analyse the usage of appropriate tools and consumables
	Critical thinking
	Critical trilliking
	The user/individual on the job needs to know and understand how to:
	SB7. Spot errors and any other disruptions and communicate with solutions
C. Technical Skills	Handling tools, equipments and chemicals
	σ (
	The user/individual on the job needs to know and understand how to:
	SC1. Use safety equipments such as fire extinguisher during fire accidents
	SC2. Store chemicals and tools in a safe way
	SC3. Use tools and equipments without causing any injury to follow workers









HCS/N9902 NOS Version Control

Maintain safe work environment

NOS Code	HCS/N9902		
Credits(NSQF)	TBD	Version number	1.0
Industry	Handicrafts and Carpet	Drafted on	23/02/15
Industry Sub-sector	Handicrafts (Ceramics), Handicrafts (Fashion Jewellery), Handicrafts (Stonecraft), Glassware, Metalware	Last reviewed on	23/03/18
Occupation	Production Management, Research and Development, Mixing and Milling, Moulding, Finishing and Painting, Pre- Production, Furnace Operation, Quality Check, Production, Pre - Crafting, Stone Crafting, Mixing, Moulding, Cutting, Smoothening, Finishing, Designing, Metal Casting and Stamping, Metal Craft Making, Cleaning/Polishing/Buffing, Painting and Plating, Packing, Marketing and Merchandising	Next review date	23/03/20

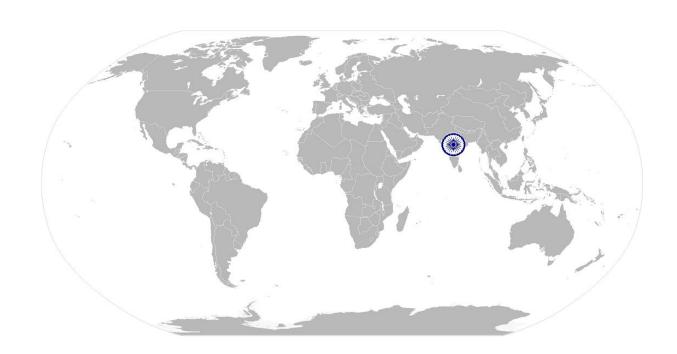






Maintain personal health

National Occupational Standard



Overview

This unit is about managing personal health at work place.







Maintain personal health

HCS/N9903	Maintain personal health	
Unit Code	HCS /N9903	
Unit Title (Task)	Maintain personal health	
Description	This OS unit is about managing personal health at work place.	
Scope	This unit/ task covers the following:	
	Adopt healthy work practices	
	Achieve work productivity while maintaining health	
Performance Criteria	(PC) w.r.t. the Scope	
Element	Performance Criteria	
Adopt healthy	To be competent, the user/individual on the job must be able to:	
work practices	PC1. Protect mouth and nose with a dust mask while working and change the same	
	when required	
	PC2. Follow work instructions strictly to reduce the amount of pollution at the work place	
	PC3. Protect eyes while working, using proper personal protective equipment and	
	maintaining the same as per work standard	
	PC4. Protect oneself from blisters, scratches and cuts	
	PC5. Undergo preventive health checkups at regular intervals	
	PC6. Take prompt treatment from the doctor in case of illness	
	PC7. Follow SOPs for dealing with blisters, scratches, accidental fires or any other type of emergencies at work	
Achieve work	PC8. Ensure the absence of no productivity loss or absenteeism from work due to	
productivity while	illness	
maintaining health	PC9. Ensure no long term ill effect on the personal health	
Knowledge and Unde	erstanding (K)	
A. Organizational	The user/individual on the job needs to know and understand:	
Context	KA1. Company's policies on personal health and occupational hazard management	
(Knowledge of	KA2. Company's HR policies	
the company /	KA3. Company's reporting structure	
organization and	KA4. Company's emergency evacuation procedure	
its processes)		
B. Technical	The user/individual on the job needs to know and understand:	
Knowledge	KB1. Health risks to the worker at the work place	
	KB2. Healthy work practices	
	KB3. How to perform the duties in a way to minimize pollution at the work place	
	KB4. What personal protective equipments should be worn and how it is cared for	
	KB5. Safe disposal methods for waste	
	KB6. How to provide the first aid treatment at workplace	
	KB7. Emergency procedures to be followed in case of an mishap such as fire	
	accidents etc.	
	,	







Maintain personal health

Skills (S)		
A. Core Skills/	Reading skills	
Generic Skills	The user/ individual on the job needs to know and understand how to: SA1. Read personal health instructions and manual	
	SA2. Read the usage of various hand tools and personal protection equipments	
	Writing skills	
	The user/ individual on the job needs to know and understand how to:	
	SA3. Take notes on descriptions and details of various personal health maintenance procedures	
	Communication Skills	
	The user/ individual on the job needs to know and understand how to:	
	SA4. Communicate with supervisor about the physical symptoms SA5. Receive instructions from doctor and supervisor on medical care	
	3A3. Neceive instructions from doctor and supervisor on medical care	
B. Professional	Decision Making	
Skills	The user/ individual on the job needs to know and understand how to: SB1. Select appropriate hand tools and personal protection equipments SB2. Change personal protection equipment uring the work SB3. Identify first aid needs in case and of an injury	
	Plan and organize	
	The user/ individual on the job needs to know and understand how to: SB4. Select appropriate hand tools and personal protection equipments SB5. Change personal protection equipments during the work	
	Problem solving	
	The user/ individual on the job needs to know and understand how to:	
	SB6. Improve work processes by interacting with others and adopting best practices Analytical thinking	
	The user/ individual on the job needs to know and understand how to: SB7. Resolve recurring health hazards	
	Critical thinking	
	The user/ individual on the job needs to know and understand how to: SB8. Spot any health hazards and report and communicate with solutions	







Maintain personal health

NOS Version Control

NOS Code	HCS/N9903		
Credits(NSQF)	TBD	Version number	1.0
Industry	Handicrafts and Carpet	Drafted on	23/02/15
Industry Sub-sector	Handicrafts (Ceramics), Handicrafts (Fashion Jewellery), Handicrafts (Stonecraft), Glassware, Metalware	Last reviewed on	23/03/18
Occupation	Production Management, Research and Development, Mixing and Milling, Moulding, Finishing and Painting, Pre- Production, Furnace Operation, Quality Check, Production, Pre - Crafting, Stone Crafting, Mixing, Moulding, Cutting, Smoothening, Finishing, Designing, Metal Casting and Stamping, Metal Craft Making, Cleaning/Polishing/Buffing, Painting and Plating, Packing, Marketing and Merchandising	Next review date	23/03/20

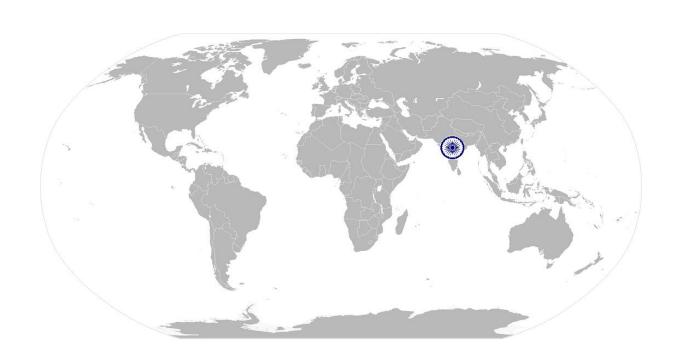






Basic business management

National Occupational Standard



Overview

This unit is about successful basic business management in handicraft units.







HCS/N9904	Basic business management	
Unit Code	HCS/N9904	
Unit Title (Task)	Basic business management	
Description	This OS unit is about basic business management in handicraft units. This OS unit is to aid in successful management of business.	
Scope	This unit/ task covers the following: People management Product planning Procurement of raw materials Market interfacing Financial management Record keeping	
Performance Criteria(PC) w.r.t. the Scope		
Element	Performance Criteria	
People management	To be competent, the user/individual on the job must be able to: PC1 Allot work to the employees of the unit according to their skill and	

Terrormance enteriali	C) w.r.t. the Scope		
Element	Performance Criteria		
People management	To be competent, the user/individual on the job must be able to:		
	PC1. Allot work to the employees of the unit according to their skill and		
	experience		
	PC2. Train the employees of his/her unit with the appropriate skills required to		
	make market relevant and quality products		
	PC3. Motivate the employees		
	PC4. Handle the grievances/issues that are raised by the employees		
	PC5. Manage the employee expectations		
Product planning	PC6. Gather and analyse the cues from the market		
	PC7. Ascertain the customer preference		
	PC8. Create product lines based on current market preference		
	PC9. Create product lines that are unique and able to price high		
	PC10. Price the products according to market trends		
	PC11. Decide the best way to market the product lines		
Procurement of raw	PC12. List out raw materials required according to the product lines		
materials	PC13. Ascertain the quantity and the right price to procure the materials		
	PC14. Identify the right locations/agents from where the raw materials can be		
	procured		
	PC15. Negotiate to get the best price		
	PC16. Ensure that quality materials are procured		
	PC17. Ensure that the procured materials are stored in appropriate conditions		
	PC18. Maintain the bills, and record the prices of procurement for future reference		
	PC19. Maintain healthy vendor relationships		
Market interfacing	PC20. Identify the nearest market		
	PC21. Analyze the prevalent price for product lines		
	PC22. Decide on the most effective means to access the market		
	PC23. Plan for cost effective transportation to the market		
	PC24. Position the product according to market requirements		







HCS/N9904 Basic business management

HCS/N9904	Basic business management	
	PC25. Manage customer expectations	
Financial	PC26. Analyze and ascertain the cost of production	
management	PC27. Maintain the book of accounts related to the business	
	PC28. Open and operate a bank account	
	PC29. Identify cost effective means of running business	
Record keeping	PC30. Identify various aspects of business that require recording	
	PC31. Create formats for recording	
	PC32. Make various records pertaining to all aspects of business	
	PC33. Maintain business records with periodic updation	
	PC34. Maintain necessary documents as per local government and regulatory	
	requirement	
	PC35. Analyze the records and glean various trends from the same	
Knowledge and Unders	standing (K)	
A. Technical	The user/individual on the job needs to know and understand:	
Knowledge	KA1. Interpersonal skills and communication with cross section of stakeholders	
_	KA2. Basics of accounting	
	KA3. Basics of banking	
	KA4. Costing principles	
	KA5. Product and craft knowledge, including material and tools requirement	
	KA6. How to gather market intelligence	
	KA7. Various transportation means and implication on costing	
	KA8. Various product lines that can be created depending on sector of operation	
	KA9. Basic record keeping techniques	
	KA10. Basic laws, rules, regulations, etc. with reference to business	
	KA11. Vendor management and development	
	KA12. Pricing techniques	
	KA13. Business profitability assessment	
Skills (S)	KA15. Business profitability assessment	
	Described 1915	
A. Core Skills/	Reading skills The individual on the job needs to know and understand how to:	
Generic Skills	SA1. Read about various products and keep abreast of market trends	
	· · · · · · · · · · · · · · · · · · ·	
	Writing skills The individual on the job needs to know and understand how to:	
	SA2. Document various aspects of business	
	SA3. Write descriptions and details about investment, expenditures and sale	
	Communication skills	
	The individual on the job needs to know and understand how to:	
	SA4. Interact with employees to work efficiently	
	SA5. Communicate and manage vendors	
	SA6. Interface with fellow entrepreneurs to exchange ideas on the business	
	SA7. Communicate with the customers	
	SA8. Comprehend information shared by various stakeholders	
	5.10. Comprehension and construction of various stakenoiders	







Basic business management

В.	Professional Skills	Decision making skills
		The individual on the job needs to know and understand how to:
		SB1. Finalize the product lines
		SB2. Fix the appropriate price
		SB3. Hire the employees with appropriate skill set and experience
		SB4. Predict the profit margin to be achieved by the business
		SB5. Decide on which market segment to target
		Plan and organize
		The individual on the job needs to know and understand how to:
		SB6. Schedule production cycles
		SB7. Estimate resources
		SB8. Schedule market visits
		Customer centricity
		The individual on the job needs to know and understand how to:
		SB9. Gather information on customer preference and taste
		SB10. Interact with various types of customers and understand the trends
		Problem solving
		The individual on the job needs to know and understand how to:
		SB11. Analyze and solve conflicts and problems pertaining to the business SB12. Ensure that the problems do not arise repeatedly
		SB13. Anticipate various problems/challenges that can crop up
		Analytical thinking
		The individual on the job needs to know and understand how to:
		SB14. Analyse the market for increasing the sales
		Critical thinking
		The individual on the job needs to know and understand how to:
		SB15. Tap new markets
		SB16. Introduce new product lines to create markets







HCS/N9904 Basic business management NOS Version Control

NOS Code		HCS/N9904	
Credits(NSQF)	TBD	Version number	1.0
Industry	Handicrafts and Carpet	Drafted on	23/02/2015
Industry Sub-sector	Handicrafts (Ceramics), Handicrafts (Fashion Jewellery), Handicrafts (Stonecraft), Glassware, Metalware	Last reviewed on	23/03/18
Occupation	Production Management, Research and Development, Mixing and Milling, Moulding, Finishing and Painting, Pre- Production, Furnance Operation, Production, Pre - Crafting, Stone Crafting, Mixing, Smoothening, Finishing, Designing, Metal Casting and Stamping, Metal Craft Making, Cleaning/Polishing/Buffing, Painting and Plating, Marketing and Merchandising	Next review date	23/03/20

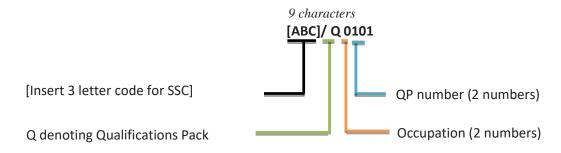




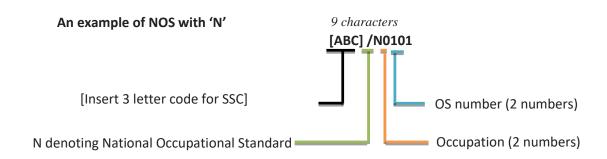
Annexure

Nomenclature for QP and NOS

Qualifications Pack



Occupational Standard



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The following acronyms/codes have been used in the nomenclature above:

Sub-sector	Range of Occupation numbers
Ceramics	01 – 10
Fashion Jewellery	11 - 13
Stoneware	14 - 19
Glassware	20 - 27
Metalware crafts	28 - 37
Leather crafts	38 - 43
Paper Mache	44 - 49
Carpets & rugs	50 – 59
Horn bone & shell craft	60 – 65
Wood ware, dolls & toys	66 – 71
Hand printed, Embroidered / knitted & crocheted textiles	72 – 77
Agarbatti	78 – 82
Paper crafts	83 – 86
NER crafts	87 – 92
Miscellaneous crafts	93 - 95
Generic Occupation	96 – 99

Sequence	Description	Example
Three letters	Handicrafts and Carpet Sector Skill Council	HCS
Slash	/	/
Next letter	Whether Q P or N OS	Q
Next two numbers	Occupation code	01
Next two numbers	OS number	01





CRITERIA FOR ASSESSMENT OF TRAINEES

Job Role: Furnace Operator Qualification Pack: HCS/Q9601

Sector Skill Council: Handicrafts and Carpet

- 1. Criteria for assessment for each Qualification Pack will be created by the Sector Skill Council. Each Performance Criteria (PC) will be assigned marks proportional to its importance in NOS. SSC will also lay down proportion of marks for each PC.
- 2. Each NOS will assessed both for theoretical knowledge and practical
- 3. The assessment will be based on knowledge bank of questions created by the SSC.
- 4. Individual assessment agencies will create unique question papers for theory and skill practical part for each candidate at each examination/training center
- 5. To pass the Qualification Pack, every trainee should score a minimum of 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

Total Mark: 500					Allocation
Assessment Outcomes	Performance Criteria	Tota I Mar ks	Out of	Theor y	Skills Practica I
	PC1. Operate the furnace with understand controls and specifications	ding of	4	1	3
	PC2. Understand the temperature require as per the product requirements and provide specifications		4	1	3
	PC3. Maintain temperature distribution in the furnace at the optimum level	side	4	1	3
	PC4. Monitor the batch movement inside furnace	the	4	1	3
	PC5. Control the cooling air inside the furn	nace	4	1	3
HCS/N9601 Carry out	PC6. Control the fuel at each port through burners		4	1	3
furnace	PC7. Operate the air compressor	100	4	1	3
operations	PC8. Control the preheating of secondary	gas	4	1	3
operations.	PC9. Monitor and control the flow of exha		4	1	3
	PC10. Understand and follow the procedure exhaust gas recovery	e for	4	1	3
	PC11. Adjust burner capacity		4	1	3
	PC12. Control the volume of primary air		4	1	3
	PC13. Control the flame rotary angle as per requirement		4	1	3
	PC14. Achieve the required flame atomising pressure	3	4	1	3





	PC15.	Adjust and control the secondary air		4	1	3
		Understand the insulation for the melting	-	4	1	3
	FC10.	chamber		4	1	3
	PC17	Understand crown insulation	-	4	1	3
		Understand side wall insulation	-	4	1	3
			-			
	PC19.	Prevent cold air from entering through		4	1	3
	DC30	inlet opening		4	1	2
	PC20.	Ensure that outlet opening is closed during		4	1	3
	DC21	operation		4	1	3
	PC21.	Operate the furnace and ensure periodical		4	1	3
		targets are met as per supervisor instructions				
	DC22	Deduce any maintenance requirement and	1	4	1	3
	PCZZ.	ensure that the furnace is operational all		4	1	3
		the time				
	PC33	Follow the standard operating procedure	1	4	1	3
	1 023.	during furnace operation and avoid any			1	,
		damage				
	PC24	Follow standard safety guidelines and		4	1	3
	1 02 1.	mention dos and don'ts for other		•	-	J
		employees who comes near furnace				
		operation area				
	PC25.	Ensure adequate fuel supply by informing		4	1	3
		procurement assistant to avoid work delay				
	TOTALI			100	25	75
	PC1.	Receive job order and instructions from		4	3	1
		reporting supervisor				
	PC2.	Understand the work output		5	4	1
		requirements, targets, performance				
		indicators and incentives				
	PC3.	Deliver quality work on time and report		5	1	4
		any anticipated reasons for delays				
HCS/N9901	PC4.	Report on any grievances, production		4	2	2
Coordinate		defects and any potential hazards				
with	PC5.	Communicate on process flow	100	4	2	2
colleagues		improvements	100			
and work as	PC6.	Communicate regarding maintenance and		4	1	3
a team		repair schedule proactively to the				
		supervisor	1			
	PC7.	Receive feedback on work standards	-	4	2	2
	PC8.	Interact and clarify doubts on design,		5	2	3
		usage of materials & tools, quality &				
	B.C.C	standards compliance, etc.			4	2
	PC9.	Report in time for shortage or need of raw		4	1	3
	1	materials	1			





	PC10	Handover completed work to supervisor		4	2	2
		Communicate with colleagues from within		5	2	3
	1 (11.	and other departments, clearly and		5	۷	3
		effectively on all aspects to carry out the				
		work among the team				
	PC12	Maintain the etiquettes, use polite		5	2	3
	1 012.	language, demonstrate responsible and		3	_	3
		disciplined behaviours towards colleagues				
	PC13.	Interact with colleagues from different		4	2	2
	. 010.	functions and understand the nature of		·	_	-
		their work				
	PC14.	Put team over individual goals and multi-		4	2	2
		task or share work where necessary				
		supporting the colleagues				
	PC15.	Resolve conflicts and ensure smooth		4	1	3
		workflow				
	PC16.	Interact and understand the production		4	1	3
		requirement for the day from the previous				
		and successive processing department and				
		work accordingly				
	PC17.	Communicate and discuss work flow		4	1	3
		related difficulties in order to find solutions				
		with mutual agreement				
	PC18.	Receive feedback from Quality Control and		5	1	4
		rework in order to complete work on time				
	PC19.	Share information with colleagues to		6	3	3
		enable efficient delivery of work				
	PC20.	Highlight any error of colleagues, help to		4	2	2
		rectify and ensure quality output				
	PC21.	Work with cooperation, coordination,		4	1	3
		communication and collaboration towards				
		the shared goals, supporting each other's				
		performance				
	PC22.	•		4	1	3
	DC22	relating to one's role as required		4	4	2
	PC23.	Report on the completed work and keep it in records		4	1	3
	TOTAL			100	40	60
HCS/N9902	PC1.	Comply with safety procedures while on	100	8	2	6
Maintain	1 01.	work to prevent accidents	100	J	_	U
safe work	PC2.	Take adequate safety measures while		8	2	6
environment	1 02.	handling materials, chemicals and tools		3	_	3
	PC3.	Wear appropriate personal protective		8	2	6
	. 55.	gears such as gloves, protective goggles,			_	
		masks etc. while working				
	I .		l		<u> </u>	





	PC4. Undertake basic safety checks before operation of all tools and electrical		9	2	7
	equipments				
	PC5. Wear appropriate and recommended clothing as per the work environment		9	2	7
	PC6. Follow recommended material handling procedure to control material and personal damage	-	8	2	6
	PC7. Perform all procedures as per company's work instructions for controlling operational risk	-	8	4	4
	PC8. Perform the duties in a manner which minimizes environmental damage		6	2	4
	PC9. Dispose of waste safely and correctly in a designated area as per company's SOP		8	2	6
	PC10. Report any accidents, incidents or problems without delay to the supervisor and take necessary immediate action to reduce further danger		8	4	4
	PC11. Ensure zero accident at workplace		10	2	8
	PC12. Adhere to safety standards and ensure no		10	2	8
	material damage				
	TOTAL POINTS		100	28	72
	PC1. Protect mouth and nose with a dust mask while working and change the same when required		12	4	8
	PC2. Follow work instructions strictly to reduce the amount of pollution at the work place	=	10	2	8
	PC3. Protect eyes while working, using proper personal protective equipment and maintaining the same as per work standard		10	2	8
HCS/N9903	PC4. Protect oneself from blisters, scratches and cuts		10	2	8
Maintain personal	PC5. Undergo preventive health checkups at regular intervals	100	10	2	8
health	PC6. Take prompt treatment from the doctor in case of illness		11	3	8
	PC7. Follow SOPs for dealing with blisters, scratches, accidental fires or any other type of emergencies at work		11	4	7
	PC8. Ensure the absence of no productivity loss or absenteeism from work due to illness		13	3	10
	PC9. Ensure no long term ill effect on the personal health		13	3	10
	TOTAL POINTS		100	25	75





		All a land a land		_	_	_
	PC1.	Allot work to the employees of the unit		3	1	2
	DCC	according to their skill and experience	-		4	2
	PC2.	Train the employees of his/her unit with		3	1	2
		the appropriate skills required to make				
		market relevant and quality products	4			
	PC3.	Motivate the employees	1	2	1	1
	PC4.	Handle the grievances/issues that are		2	1	1
		raised by the employees	-			
	PC5.	Manage the employee expectations	1	2	1	1
	PC6.	Gather and analyse the cues from the		2	1	1
		market	1			
	PC7.	Ascertain the customer preference		3	1	2
	PC8.	Create product lines based on current		3	1	2
		market preference	1			
	PC9.	Create product lines that are unique and		3	1	2
		able to price high				
	PC10.	Price the products according to market		3	1	2
		trends	1	_		_
	PC11.	Decide the best way to market the product	100	3	1	2
		lines				
HCS/N9904	PC12.	List out raw materials required according		2	0	2
Basic		to the product lines				_
business	PC13.	Ascertain the quantity and the right price		3	1	2
management		to procure the materials				_
	PC14.	Identify the right locations/agents from		3	1	2
		where the raw materials can be procured				
		Negotiate to get the best price	4	3	0	3
		Ensure that quality materials are procured	_	4	1	3
	PC17.	Ensure that the procured materials are	3	3	1	2
		stored in appropriate conditions	4			
	PC18.	Maintain the bills, and record the prices of		3	1	2
		procurement for future reference	4			
		Maintain healthy vendor relationships	_	3	1	2
		Identify the nearest market	_	3	1	2
	PC21.	Analyze the prevalent price for product		3	2	1
		lines	_			
	PC22.	Decide on the most effective means to		2	1	1
		access the market	1	_		_
	PC23.	Plan for cost effective transportation to		3	1	2
	D.C.C. (the market	-			
	PC24.	Position the product according to market		3	1	2
	500=	requirements	-			
		Manage customer expectations	-	2	0	2
	PC26.	Analyze and ascertain the cost of		3	1	2
		production				





PC27. Maintain the book of accounts related to	3	1	2
the business			
PC28. Open and operate a bank account	4	2	2
PC29. Identify cost effective means of running	3	1	2
business			
PC30. Identify various aspects of business that	3	2	1
require recording			
PC31. Create formats for recording	3	2	1
PC32. Make various records pertaining to all	3	2	1
aspects of business			
PC33. Maintain business records with periodic	3	2	1
updation			
PC34. Maintain necessary documents as per local	3	2	1
government and regulatory requirement			
PC35. Analyze the records and glean various	3	2	1
trends from the same			
TOTAL POINTS	100	40	60