



QUALIFICATIONS PACK - OCCUPATIONAL STANDARDS FOR PAINTS AND COATINGS 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
- Sare performance standards that individuals must achieve when carrying out functions in the workplace, together with specifications of the underpinning knowledge and understanding

Contact Us:

Paints and Coatings Skill Council, 105, Kakad Chambers, 132, Dr. Anne Besant Road, Worli, Mumbai – 400 018 Email:

managerquality@pcsc.in





Contents

1.	Introduction and ContactsP1
2.	Qualifications PackP2
3.	Glossary of Key TermsP3
4.	OS UnitsP5
5.	Nomenclature for QP& OSP57
6.	Assessment Criteria for each NOSP59

Introduction

Qualifications Pack: QC Chemist (RM and FG)

SECTOR: PAINTS AND COATINGS

SUB-SECTOR: MANUFACTURING

OCCUPATION: Quality Control

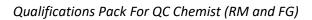
REFERENCE ID: PCS/Q0802

ALIGNED TO: NCO-2015/2113.0601

The QC Chemist (Raw Material and Finished Goods) is responsible for ensuring that the product quality meets defined standards by checking that the quality of raw materials and finished goods meet the agreed specifications.

Brief Job Description: The individual at work conducts specified tests and measurements on raw materials when they arrive from suppliers and vendors and also certifies that the finished goods are ready for despatch.

Personal Attributes: The individual should have ability to work in a factory environment where high level of mobility is required to collect samples, conduct tests and run sample checks.





U	2
•=	
7,	
Ď	J
	1
_	
$\stackrel{\sim}{\sim}$	5

Qualifications Pack Code	PCS/Q0802		
Job Role	QC Chemist (RM and FG)		
Credits(NSQF)	TBD	Version number	1.0
Sector	Paints and Coatings	Drafted on	17/03/16
Sub-sector	Manufacturing	Last reviewed on	30/06/17
Occupation	Quality Control	Next review date	30/06/19
NSQC Clearance on		NA	

Job Role	QC Chemist (RM and FG)	
Role Description	Ensuring that the product quality meets defined standards by checking that the quality of raw materials and finished goods.	
NSQF level	5	
Minimum Educational Qualifications	BSc Chemistry	
Maximum Educational Qualifications	Paint Technologist	
Training (Suggested but not mandatory)	Not Applicable	
Minimum Job Entry Age	18 years	
Experience	Minimum Preferable 4 years as Junior Chemist	
Applicable National Occupational Standards (NOS)	 PCS/N0801 Check quality of incoming raw materials and finished goods PCS/N9901 Coordinate with colleagues and customers PCS/N9902 Maintain standards of product/ service quality PCS/N9903 Maintain OH&S standards and follow environmental norms PCS/N9904 Maintain IPR of organisation and customer Optional: NA 	
Performance Criteria	As described in the relevant OS units	





Keywords /Terms	Description			
Core Skills/Generic Skills	Core Skills or Generic Skills are a group of skills that are key to learning and working in today's world. These skills are typically needed in any work environment. In the context of the NOS, these include communication related skills that are applicable to most job roles.			
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 NOS.			
Job role	Job role defines a unique set of functions that together form a unique employment opportunity in an organization.			
Knowledge and Understanding	Knowledge and Understanding are statements which together specify the technical, generic, professional and organizational specific knowledge that an individual needs in order to perform to the required standard.			
National Occupational Standards (NOS)	NOS are Occupational Standards which apply uniquely in the Indian context			
Occupation	Occupation is a set of job roles, which perform similar/related set of functions in an industry.			
Organisational Context	Organisational Context includes the way the organization is structured and how it operates, including the extent of operative knowledge managers have of their relevant areas of responsibility.			
Performance Criteria	Performance Criteria are statements that together specify the standard of performance required when carrying out a task.			
Qualifications Pack(QP)	Qualifications Pack comprises the set of NOS, together with the educational, training and other criteria required to perform a job role. A Qualifications Pack is assigned a unique qualification pack code.			
Qualifications Pack Code	Qualifications Pack Code is a unique reference code that identifies a qualifications pack.			
Scope	Scope is the set of statements specifying the range of variables that an individual may have to deal with in carrying out the function which have a critical impact on the quality of performance required.			
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.			
Sub-functions	Sub-functions are sub-activities essential to fulfil the achieving the objectives of the function.			
Technical Knowledge	Technical Knowledge is the specific knowledge needed to accomplish specific designated responsibilities.			





Acronyms

Keywords /Terms	Description		
NSQF	National Skills Qualifications Framework		
QP	Qualification Pack		
OS	Occupational Standards		
OH&S	Occupational Health and Safety		
PPE	Personal Protective Equipment		
HR	Human Resources		
TBD	To be done		

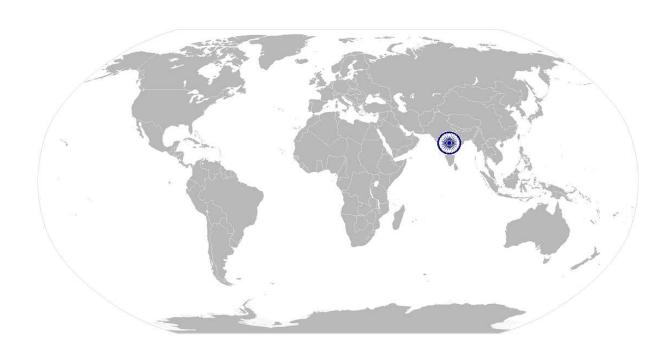






Check quality of incoming raw materials and finished goods

National Occupational Standard



Overview

This unit is about checking the quality of incoming raw materials and finished goods using standard tests and measures and as per the established standards, systems and processes for paint manufacturing.







PCS/N0801	Check quality of incoming raw materials and finished goods			
Unit Code	PCS/N0801			
Unit Title (Task)	Check quality of incoming raw materials and finished goods			
Description	This OS unit is about checking the quality of incoming raw materials and finished goods using standard tests and measures and as per the established standards, systems and processes for paint manufacturing			
Scope	 This unit/task covers the following: Prepare samples of incoming raw materials including packaging materials Maintain standards, systems and processes for QC testing Conduct tests recommended for the raw materials Conduct tests on finished goods Document test results and prepare conformance reports Maintain test and measuring instruments Range statement: Testing equipments, Paint quality check equipments			

Range Statement: Testing equipments, Faint quanty check equipments				
Performance Criteria(PC) w.r.t. the Scope				
Element	Performance Criteria			
Preparing samples of	To be competent, the user/ individual must be able to:			
incoming raw	PC1. prepare sample lots for testing of different types of raw materials including			
materials including	packaging materials, as per sampling procedure fro a given quantity or weight			
packaging materials	PC2. retract and collect samples from the bags, liquid containers or tankers and packaging materials			
	PC3. document the sample details and prepare bags/ modules of the sample collected			
	PC4. mark and label the samples as per standard quality management procedure			
	PC5. avoid contamination of samples			
	PC6. seal and send samples for testing to laboratory			
	PC7. follow prescribed Quality Managment Systems			
Maintaining	To be competent, the user/ individual must be able to:			
standards, systems	PC8. identify the most appropriate equipment for QC testing as per standard			
and processes for QC	quality management procedure, e.g., for solvent, or packaging material			
testing	(plastic, tin, carton) or for extender powder or resin			
	PC9. use recommended test and measurement process manual for tesing the sample			
	PC10. create paint batch and record any R&D changes			
	PC11. follow ISO standards as applicable			
	PC12. use designated space for sample storage as per recommended standards,			
	such as ambient temperature, moisture level, pests, theft and fire safety			
	PC13. if possible, suggest remedy for materials that have failed tests			
Conducting tests	To be competent, the user/ individual must be able to:			
recommended for	PC14. conduct regular and exceptional testing as per the established standards for			
the raw materials	specific product categories			
	PC15. test for rentention period of materials as well as specified quality for			







PCS/N0801 Ch	eck quality of incoming raw materials and finished goods	
	production PC16. conduct tests such as specific gravity, water content, evaporation ratio, etc.	
	for solvent	
	PC17. conduct tests on powders such as appearance, colour, brightness, water, purity	
	PC18. conduct practical trials for recommended raw materials samples and check	
	against prescribed standards and declared standards	
	PC19. conduct checks on drying time, viscosity, solid content, etc. PC20. conduct tests on packaging materials, e.g., look, appearance, weight,	
	dimension, drop test, bursting strength of carton, ply-strength, age classifying	
	test PC21. use brightness meter, melting point meter, gas liquid chromatography for	
	solvent test, mositure analyser, Karl-Fischer instrument for water content,	
	etc.	
	PC22. analyse the results and findings and suggest appropriate corrective action in consultantation with manufacturing / production incharge	
Conducting tests on	To be competent, the user/individual must be able to:	
finished goods	PC23. conduct regular and exceptional testing as per the established standards for	
	specific product categories	
	PC24. use dispersion guage	
	PC25. measure viscosity using instrument such as rotothinner	
PC26. use glossometer for checking gloss level PC27. use Elcometer for film thickness test PC28. check performance on wall or metal or wood for the paint type		
	PC30. check UV resistance using weatherometer	
	PC31. conduct pencil hardness test	
	PC32. use stone chip resistence machine for resistance to gravel, etc.	
	PC33. use barcoding machine PC34. use incubation chamber for logevity test	
	PC35. use ambient guage to measure surface condition before applying panis and	
	coats	
	PC36. analyse the results and findings and suggest appropriate corrective action in consultantation with manufacturing / production incharge	
	PC37. ensure zero defect in finished product as per specified standards	
	PC38. check packaging of finished goods, e.g., type of packaging, damage, etc.	
	PC39. check lablelling is accurate and as per agreed/ spcified standards for the batch	
	PC40. ensure timely and safe dispatch of batch of finished goods to warehouse, without any logistics damage	
Documenting test	To be competent, the user/ individual must be able to:	
results and preparing	PC41. record results and findings as per the established reporting and	
conformance reports	documentation templates	
	PC42. document sample progression, from sampling stage to testing and production	
	PC43. fill and dispatch copies for each batch of samples tested	







PCS/N0801 Ch	eck quality of incoming raw materials and finished goods			
	PC44. prepare test conformance reports with pass or reject outcomes			
	PC45. record batch test results against prescribed tolerance level			
	PC46. ensure data and process integrity			
Maintaining test and	be competent, the user/ individual must be able to:			
measuring	PC47. calibrate the testing equipments for QC check periodically as per the			
instruments	standards			
	3. identify defective equipment and take appropriate corrective actions			
	PC49. clean the lab periodically, as per prescribed standards			
	PC50. clean the test apparatus as per prescribed standards			
	PC51. dispose materials to plant in usable condition			
	PC52. maintain lab safety standards			
	PC53. stacking and labelling of samples as per prescribed standards			
Knowledge and Unders	standing (K)			
A. Organizational	The individual on the job needs to know and understand:			
Context	KA1. quality standards of the company			
(Knowledge of the	KA2. understaning of quality requirements of various product categories			
company /	KA3. legal and regulatory frameworks relevant to the quality control			
organization and	KA4. documentation requirments of quality checks			
its processes)	KA5. company's personnel management and incentives rules			
	importance of the individual's role in the workflow			
	reporting structure			
	KA8. occupational health and safety standards			
	production area layout and quality standards			
B. Technical	The individual on the job needs to know and understand:			
Knowledge	KB1. various kinds of raw materials involved in the process			
	KB2. formulations for the particular batches			
	KB3. overall powder paint manufacturing process			
	KB4. overall liquid paint manufacturing process			
	KB5. basic properties of various resins, additives and other chemicals used			
	KB6. material handling			
	KB7. significance of use of protective gear like gloves, ladles, etc.			
	KB8. various tests for powder and liquid paints			
	KB9. implication the tests on the end product			
	KB10. customer specifications			
	KB11. typical test outcomes			
	KB12. typical causes for deviations in results			
	KB13. using test equipment like gauges, etc			
	KB14. sample disposal techniques			
	KB15. sampling techniques			
	KB16. quality system requirements and standards			
	KB17. quality assurance methods			
	KB18. handling procedures of hazardous substances			
	KB19. handling of various equipments for quality checks			
	KB20. procedure for disposable of sample			







PCS/N0801 Check quality of incoming raw materials and finished goods

Ski	ills (S)	teck quanty of incoming raw materials and finished goods
A.	Core Skills/	Reading Skills
Generic Skills		The user/individual on the job needs to know and understand how to read: SA1. company's work instructions, customer requirement and quality policy SA2. instructions on usage of various equipments for QC Check SA3. paint technology journals SA4. about benchmarks in quality practices of the industry Writing Skills The user/individual on the job needs to know and understand how to: SA5. document various test results SA6. pay attention to detail while recording test results SA7. write detailed reports for investigation SA8. write official e-mails for various purpose at work SA9. to maintain the record of job completed as per company's policy Oral Communication (Listening and Speaking skills)
		The user/individual on the job needs to know and understand how to: SA10. communicate with raw material suppliers SA11. interact within- line staff to report quality related issues SA12. interact with R&D and marketing staff SA13. accurately communicate the QC relater problems to senior management
В.	Professional Skills	Decision Making
		The user/individual on the job needs to know and understand how to: SB1. interpret and analyse information and evaluate results to choose the best solution and solve problems as per the established protocols.
		Plan and Organize
		The user/individual on the job needs to know and understand how to: SB2. schedule and proritise the work plan to meet the set target for Quality
		Customer Centricity
		The user/individual on the job needs to know and understand how to: SB3. ensure the final product meets the customer requirements Problem Solving
		The user/individual on the job needs to know and understand how to: SB4. solve issues related to quality in consultation with line staff.
		Analytical Thinking
		The user/individual on the job needs to know and understand how to: SB5. estimate the time taken for various testing procedure to align production schedules
		Critical Thinking
		The user/individual on the job needs to know and understand how to: SB6. avoid recurring quality issues through systematic approach of end to end analysis



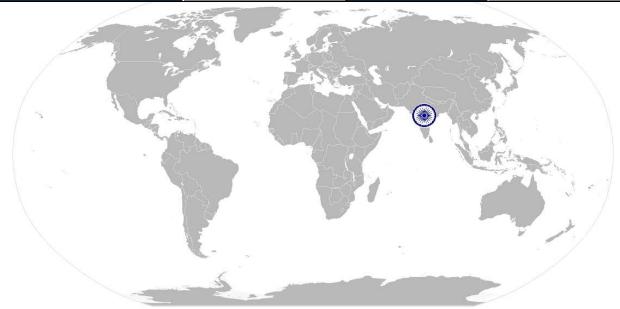




PCS/N0801 Check quality of incoming raw materials and finished goods

NOS Version Control

NOS Code	PCS/N0801			
Credits(NSQF)	TBD	Version number	1.0	
Industry	Paints and Coatings	Drafted on	17/03/16	
Industry Sub-sector	Manufacturing	Last reviewed on	30/06/17	
Occupation	Quality Control	Next review date	30/06/19	



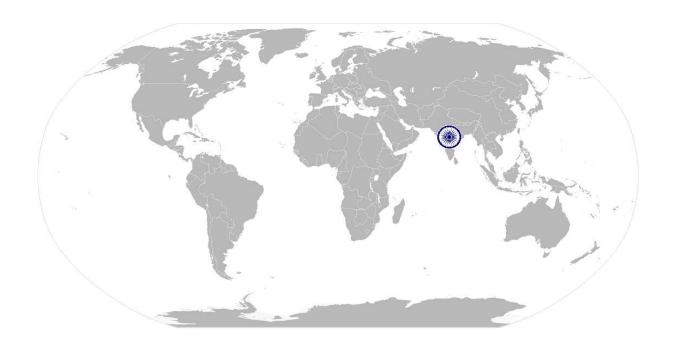






PCS/N9901 Coordinate with colleagues and/ or customers

National Occupational Standard



Overview

This unit is about communicating effectively with superiors, colleagues and customers to achieve a smooth workflow.



National Occupational Standards



PCS/N9901

Unit Code	PCS/N9901
Unit Title (Task)	Coordinate with colleagues and/or customers
Description	This OS unit is about communicating effectively with superiors, colleagues and customer to achieve a smooth workflow
Scope	This unit/task covers the following:
	Interact with superior
	Communicate with colleagues
	Communicate effectively with customers, if required
Performance Criteria(I	PC) w.r.t. the Scope
Element	Performance Criteria
Interacting with	To be competent, the user/ individual must be able to:
superior	PC1. receive job order and instructions from reporting 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. escalate unresolved problems or complaints to the relevant senior PC5. communicate maintenance and repair medule proactively to the superior
	PC6. receive feedback on work standards
	PC7. document the completed work schedule and handover to the superior
Communicating with	To be competent, the user/ individual must be able to:
colleagues	PC8. exhibit trust, support and respect to all the colleagues in the workplace
	PC9. aim to achieve smooth workflow
	PC10. help and assist colleagues with information and knowledge
	PC11. seek assistance from the colleagues when required PC12. identify the potential and existing conflicts with the colleagues and resolve
	PC13. pass on essential information to other colleagues on timely basis
	PC14. maintain the etiquette, use polite language, demonstrate responsible and
	disciplined behaviors to the colleagues
	PC15. interact with colleagues from different functions clearly and effectively on all
	aspects to carry out the work among the team and understand the nature of their work
	PC16. put team over individual goals and multi task or share work where necessary
	supporting the colleagues
	PC17. highlight any errors of colleagues, help to rectify and ensure quality output
	PC18. work with cooperation, coordination, communication and collaboration, with
Communicating	shared goals and supporting each others performance To be competent, the user/ individual must be able to:
_	PC19. ask more questions to the customers and identify their needs
effectively with	PC20. possess strong knowledge on the product, services and market
customers, if	PC21. brief the customers clearly on potential costs and hazards
required	PC22. communicate with the customers in a polite, professional and friendly manner
	PC23. build effective but impersonal relationship with the customers







PCS/N9901	Coordinate with colleagues and/ or customers
	PC24. ensure the appropriate language and tone are used with customers
	PC25. listen actively and have a two way communication
	PC26. be sensitive to the gender, cultural and social differences such as modes of greeting, formality, etc.
	PC27. understand the customer expectations correctly and provide the appropriate products and services
	PC28. understand the customer dissatisfaction and address or escalate their complaints effectively
	PC29. maintain a positive, sensible and cooperative manner all time
	PC30. ensure to maintain a proper body language, dress code, gestures and etiquettes towards the customers
	PC31. avoid interrupting the customers while they talk
	PC32. ensure to avoid negative questions and statements to the customers
	PC33. inform the customers on any issues or problems before hand and also on the developments involving them
	PC34. ensure to respond back to the customer immediately for their voice messages, e-mails, apps, etc.
	PC35. develop good rapport with the customers and promote other products and services
	PC36. seek feedback from the customers on their understanding to what was discussed PC37. explain the terms and conditions clean
Ko avula da a aval Hudana	
Knowledge and Unders	standing (k)

knowledge and Understanding (k)		
A. Organizational	The user/individual on the job needs to know and understand:	
Context (Knowledge of the company / organization and its processes)	 KA1. company's policies on personnel management, effective team work at workplace KA2. company's HR policies KA3. company's reporting structure KA4. company's documentation policy KA5. company's customer profile KA6. occupational health and safety standards 	
B. Technical Knowledge	The user/individual on the job needs to know and understand: KB1. methods for effective communication with various categories of people and the different departments in the organization KB2. significance of team coordination and productivity targets of the organisation KB3. how to record the job activity as required on various types of documents? KB4. how to use computer or smartphone to communicate effectively and productively? KB5. significance of helping colleagues with specific issues and problems KB6. importance of meeting quality and time standards as a team KB7. how to practice effective listening and talking KB8. effective use of voice tone and pitch for communication KB9. how to demonstrate ethics and convey discipline to the customers?	







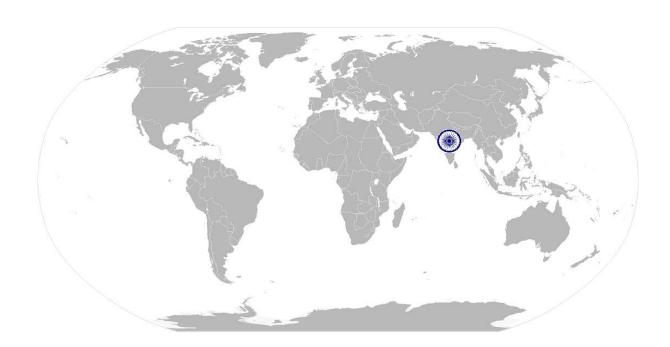
1 C5/11/701	Coordinate with concagues and or customers	
	KB10. how to build effective working relationship with mutual trust and respect	
	within the team	
01.00 (0)	KB11. importance of dealing with grievances effectively and in time	
Skills (S)		
A. Core Skills/	Reading Skills	
Generic Skills	The user/ individual on the job needs to know and understand how to:	
	SA1. read job sheets, company policy documents and information displayed at the	
	workplace	
	SA2. read notes/comments from the supervisor	
	Writing Skills	
	The user/ individual on the job needs to know and understand how to:	
	SA3. fill up documentation pertaining to job requirement	
	Oral Communication (Listening and Speaking skills)	
	The user/ individual on the job needs to know and understand how to:	
	SA4. interact with team members to work efficiently	
	SA5. communicate effectively with superior to achieve smooth workflow	
	SA6. communicate effectively with the customers tobuild a good rapport with	
	them	
	SA7. use language that the customer or congague understands	
	SA8. use the communications systems of the company, e.g., telephone, fax, public	
	announcement systems	
	SA9. E-mail and use Internet for communicating	
	SA10. use of audio-visual aids to communicate complex issues	
B. Professional Skills	Decision Making	
	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. plan communication strategy in order to avoid conflicts and work disruption	
	Customer Centricity	
	The user/ individual on the job needs to know and understand how to:	
	SB4. practice patient listening, careful talking and paraphrasing in order to avoid	
	misunderstanding	
	Problem Solving	
	The user/ individual on the job needs to know and understand how to:	
	SB5. coordinate with different departments and multi-task as necessary	
	SB6. contribute to quality of team work and achieve smooth workflow	
	SB7. share work load as required	
	· · · · · · · · · · · · · · · · · · ·	







SB8. delegate work in consultation with superior or as necessary instead of allowing work to pile up
Analytical Thinking
The user/ individual on the job needs to know and understand how to:
SB9. resolve recurring inter-personal conflicts by clear and two-way dialogue
Critical Thinking
The user/ individual on the job needs to know and understand how to:
SB10. improve work processes by interacting with others and adopting best
practices









Coordinate with colleagues and/ or customers

NOS Version Control

NOS Code	PCS/N9901		
Credits(NSQF)	TBD	Version number	1.0
Industry	Paints and Coatings	Drafted on	17/03/16
Industry Sub-sector	Manufacturing and Application	Last reviewed on	30/06/17
Occupation	Quality Control	Next review date	30/06/19







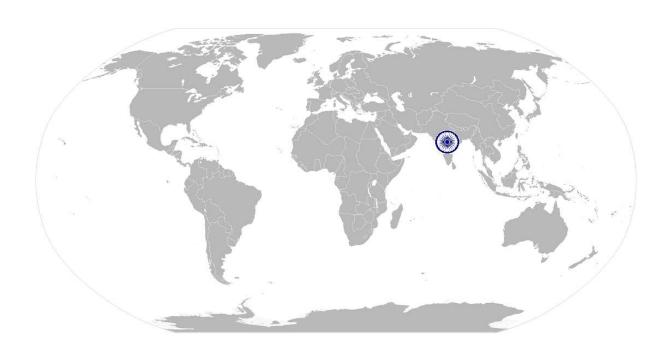
PAINTS AND COATINGS SKILL COUNCIL





Maintain standards of product/ service quality

National Occupational Standard



Overview

This unit is about understanding accepted levels of standards of product quality or customer service and executing the designated workin a manner that results in 100% satisfaction.







PCS/N9902 Maintain standards of product/service quality

Unit Code PCS/N9902	
Unit Title (Task)	Maintain standards of product/ service quality
Description	This OS unit is about understanding accepted levels of standards of product quality or customer service and executing the designated workin a manner that results in 100% satisfaction.
Scope	This unit/task covers the following:
	 Engage with superior or customers to understand their product/service quality requirements Achieve 100% satisfaction for given quality Work to fulfil end-customers's expectations
Performance Criteria(F	PC) w.r.t. the Scope
Element	Performance Criteria
Engaging with superior or customers to understand product/ service quality requirements	To be competent, the user/ individual must be able to: PC1. keep in mind the profiles of expected customers PC2. understand the target customers and their product/ service quality requirements as defined by the comapny PC3. receive superior's/ customer feedback formregularly PC4. aim to build a good connect with the customers through quality product/ service PC5. keep tab on frequent discussions with regular customers on general likes and dislikes in the market, latest trends, customer expectations, etc. PC6. receive updates on regular feedbacks from the clients on current service, complaints, and improvements to be made, etc. PC7. if necessary, compulsively seek customer rating of product/ service in order to help develop a set of regularly improved procedures PC8. demonstrate quality orientation at all level PC9. aim to gain their long lasting loyalty through satisfaction
Achieving100% customer satisfaction for given quality	To be competent, the user/ individual must be able to: PC10. ensure 100% customer satisfaction via product/ service quality PC11. treat the customers fairly and with due respect PC12. focus on executing company's marketing strategies and product development needs PC13. focus on enhancing brand value of company by maintaining or enhancing quality standards
Fulfilling customer requirement	To be competent, the user/ individual must be able to: PC14. ensure that customer expectations are met PC15. learn to read customers' needs and wants PC16. willingly accept and mplement new and innovative products and services that help improve customer satisfaction PC17. communicate feedback of customer to senior, especially, the negative feedback PC18. maintain close contact with the customers and focus groups







PCS/N9902 Maintain standards of product/ service quality

Maintain standards of product/ service quality
PC19. offer promotions to improve product satisfaction level to the customers periodically PC20. weigh the cost of fulfilling unscheduled customer requests, consult with senior and advise the customer on alternatives
tanding (K)
The user/individual on the job needs to know and understand:
 KA1. company's quality standards policy KA2. company's HR policies KA3. company's reporting structure KA4. company's documentation policy for quality compliance KA5. company's end-customer profile KA6.
The user/individual on the job needs to know and understand:
 KB1. significance of maintaining or enhancing company's quality standards KB2. significance of treating the customers with respect and professional way KB3. different types of parameters tested for quality KB4. test pass/ fail criteria and acceptable tolerance levels KB5. equipment used for quality tests KB6. importance of gaining customer loyalty KB7. methods of engaging with the customers effectively and professionally, for customer facing activities KB8. ways to improve company's customer satisfaction rating KB9. prevailing market standards of customer satisfaction KB10. standard operating procedure (SOP) KB11. the variety of common and unscheduled requests to expect in customer facing activities KB12. significance of being transparent and courteous under all circumstances involving customer interaction without losing composure
The user/ individual on the job needs to know and understand how to: SA1. read job sheets, company policy documents and information displayed at the work place about quality standards SA2. read notes/comments from the supervisor Writing Skills The user/ individual on the job needs to know and understand how to: SA3. fill up documentation pertaining to one's role in customer satisfaction







PCS/N9902 Maintain standards of product/ service quality

FCS/N9902	Maintain standards of product/ service quanty		
	Oral Communication (Listening and Speaking skills)		
	The user/ individual on the job needs to know and understand how to:		
	SA4. interact with team members to achieve quality standards		
	SA5. communicate effectively with customers in field jobs		
	SA6. engage with customer to understand their expectations in field jobs		
	SA7. company standards and effectiveness improvements pattern		
	SA8. resolve customer's concerns satisfactorily within timeframe stipulated by the		
	company or as agreed with customer or colleague		
	SA9. use Internet for updating on current quality related practices		
	SA10. use of audio-visual aids to communicate recurring quality concerns		
B. Professional Skills	Decision Making		
	The user/ individual on the job needs to know and understand:		
	SB1. how to spot and when to report potential areas of recurring quality concerns		
	SB2. how to address the complaints and handle the dissatisfied the customers		
	Plan and Organize		
	The user/ individual on the job needs to know and understand:		
	SB3. how to plan workflow to achieve/ deliver 100% quality in the given time and		
	with given equipment		
	Customer Centricity		
	The user/ individual on the job needs to know and understand:		
	SB4. how to earn full customer loyalty		
	Problem Solving		
	The user/ individual on the job needs to know and understand how to:		
	SB5. coordinate with different departments in order to service the customer		
	better		
	SB6. contribute to quality of team work and achieve smooth workflow		
	SB7. share work load as required		
	Analytical Thinking		
	The user/ individual on the job needs to know and understand how to:		
	SB8. communicate new product quality standards to different stakeholders in the		
	market and train colleagues for quality, if required		
	Critical Thinking		
	The user/ individual on the job needs to know and understand how to:		
	SB9. improve work processes by interacting with customers and adopting best practices		
	SB10. resolve recurring inter-personal or system related conflicts with colleagues		
	that hinder customer service		
	SB11. act upon constructively on any problems as pointed by customers		
	SB12. handle personality clashes effectively		
	JULE. Handle personality clashes effectively		







Maintain standards of product/ service quality

NOS Version Control

NOS Code	PCS/N9902		
Credits(NSQF)	TBD	Version number	1.0
Industry	Paints and Coatings	Drafted on	17/03/16
Industry Sub-sector	Manufacturing and Application	Last reviewed on	30/06/17
Occupation	Quality Control	Next review date	30/06/19

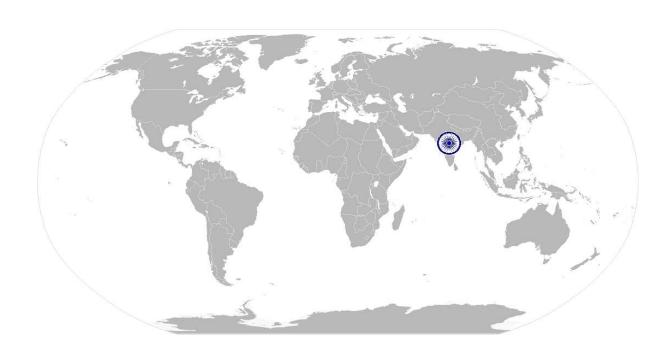








National Occupational Standard



Overview

This unit is about complying with workplace health, hygiene, safety and environmental standards to have a hazard-free environment and avoid downtime. It is also about following government laid norms for waste treatment and disposal.







Unit Code	PCS/N9903
Unit Title (Task)	MaintainOH&S standards and follow environmental norms
Description	This OS unit is about complying with workplace health, hygiene, safety and environmental standards to have a hazard-free environment and avoid downtime. It is also about following government laid norms for waste treatment and disposal
Scope	 This unit/task covers the following: Take precautionary measures to avoid work hazards and environmental damage Follow standard health, safety and environmental policies and procedures Use safety tools and/ or personal protective equipment
	Achieve health, safety and environmental standards
Performance Criteria(F	PC) w.r.t. the Scope
Element	Performance Criteria
Taking precautionary measures to avoid health, safety and environmental hazards	To be competent, the user/ individual must be able to: PC1. assess the various health, safety and environmental hazards in the work areas PC2. take necessary steps to eliminate or minimize the hazards PC3. analyze the causes of accidents at the workplace PC4. suggest measures to prevent such accidents from taking place PC5. take preventive measures to avoid risk of burns and other injury due to contact with hot surfaces, gas, fire, hot fluids/ liquids, etc. PC6. suggest methods to improve the existing safety procedures at the workplace PC7. dispose waste in the designated areas safely as per company's policies and rules PC8. maintain appropriate ventilation in the rooms while there is more exposure to paint vapours
Following standard health, safety and environmental policies and procedure	PC9. avoid dumping unused cans to safeguard the environment To be competent, the user/individual must be able to: PC10. be aware of the locations of fire extinguishers, emergency exits, etc. PC11. practice correct emergency procedures PC12. check and review the storage areas frequently PC13. stack items in an organized way and use safe lifting techniques to reduce risk of injuries from handling procedures at the storage areas PC14. ensure to be safe while handling materials, tools, acids, chemicals, equipment, etc. PC15. store the chemicals and acids in a well-ventilated and locked areas with warning signs displayed PC16. ensure safe techniques while moving furniture and fixtures PC17. ensure to reduce risk of injury from use of electrical tools PC18. read the manufacturer's manual carefully before use of any equipment PC19. unplug the electrical equipment before performing maintenance PC20. keep the floors free from oil, water and grease to avoid slippery surface PC21. use rubber mats in the places where floors are constantly wet PC22. ensure safety from injuries of cuts to loss of fingers, while handling sharp







	am Offices standards and follow environmental norms
Using safety tools or Personal Protective Equipment	hazardous tools and equipment PC23. use flat surfaces, secure holding and protective wear while using such sharp tools PC24. use health, safety and environmental protection practices for storing, cleaning, and maintaining tools, equipment, and supplies PC25. practice ergonomic lifting, bending, or moving equipment and supplies PC26. identify the requirement for maintaining environmental norms PC27. comply with the environmental safety norms while on work to prevent accidents and health hazards PC28. follow company policies and rules regarding use of hazardous materials to avoid health, safety and environmental impacts caused by them To be competent, the user/individual must be able to: PC29. ensure the employees have access to first aid kit when needed PC30. ensure all equipment and tools are stored and maintained properly and safe to use PC31. ensure to use personal protective equipment and safety gear such as gloves, mask, headwear, footwear, glasses, goggles, etc. for specific tasks and work conditions where required PC32. ensure to display safety signs at places where necessary for people to be cautious PC33. ensure electrical precautions such as insulated clothing, adequate equipment insulation, dry work area, switch off the power supply when not required, etc.
· · · · · · · · · · · · · · · · · · ·	
Knowledge and Unders	PC40. take necessary action and correct any environmental hazards caused standing (K)
A. Organizational Context (Knowledge of the company / organization and its processes)	The individual on the job needs to know and understand: KA1. company's policies on health, safety and environmental procedures at the workplace KA2. company's reporting structure KA3. company's documentation policy KA4. occupational health, safety and environmental standards.







B. Technical	The individual on the job needs to know and understand:
Knowledge	 KB1. the purpose and usage of protective gears such as gloves , protective goggles, masks, etc. while working KB2. use of first aid at workplace KB3. significance of accidental risks to the worker and productivity loss KB4. reporting procedure or heirarchy for signs of damage and potential hazards KB5. methods to minimize accidental risks KB6. safe handling of chemicals, acids, etc. for cleaning KB7. material handling procedure KB8. standard operating procedure for safety drills and equipment maintenance KB9. precautionary activities to be followed for work place safety KB10. operation of tools and electrical equipment KB11. emergency procedures to be followed in case of an mishap such as fire, accidents, etc. KB12. government and company's environmental norms KB13. solid, liquid and gaseous waste disposal, treatment norms and equipment KB14. necessary action to be taken for the hazards identified
	· ·
	KB15. methods to minimize environmental hazards
	KB16. precautionary activities to be followed to minimize environmental impacts
Skills (S)	
A. Core Skills/	Reading Skills
Generic Skills	The user/individual on the job needs to know and understand how to:
	SA1. read and interpret the relevant organisation policies, procedures and
	diagrams that identify health, safety and safe environmental practices.
	SA2. read job sheets, company policy documents and information displayed at the
	orizi read job sireets, company poncy documents and information displayed at the
	workplace for health, safety and environment.
	workplace for health, safety and environment.
	workplace for health, safety and environment.
	workplace for health, safety and environment. SA3. read notes/comments from the supervisor Writing Skills
	workplace for health, safety and environment. SA3. read notes/comments from the supervisor
	workplace for health, safety and environment. SA3. read notes/comments from the supervisor Writing Skills The user/individual on the job needs to know and understand how to: SA4. fill up documentation related to health, safety and environmental standards,
	workplace for health, safety and environment. SA3. read notes/comments from the supervisor Writing Skills The user/individual on the job needs to know and understand how to: SA4. fill up documentation related to health, safety and environmental standards, if required Oral Communication (Listening and Speaking skills)
	workplace for health, safety and environment. SA3. read notes/comments from the supervisor Writing Skills The user/individual on the job needs to know and understand how to: SA4. fill up documentation related to health, safety and environmental standards, if required Oral Communication (Listening and Speaking skills) The user/individual on the job needs to know and understand how to:
	workplace for health, safety and environment. SA3. read notes/comments from the supervisor Writing Skills The user/individual on the job needs to know and understand how to: SA4. fill up documentation related to health, safety and environmental standards, if required Oral Communication (Listening and Speaking skills) The user/individual on the job needs to know and understand how to: SA5. verbally report health, safety and environmental hazards and poor
	workplace for health, safety and environment. SA3. read notes/comments from the supervisor Writing Skills The user/individual on the job needs to know and understand how to: SA4. fill up documentation related to health, safety and environmental standards, if required Oral Communication (Listening and Speaking skills) The user/individual on the job needs to know and understand how to: SA5. verbally report health, safety and environmental hazards and poor organisation practice.
	workplace for health, safety and environment. SA3. read notes/comments from the supervisor Writing Skills The user/individual on the job needs to know and understand how to: SA4. fill up documentation related to health, safety and environmental standards, if required Oral Communication (Listening and Speaking skills) The user/individual on the job needs to know and understand how to: SA5. verbally report health, safety and environmental hazards and poor organisation practice. SA6. communicate to the supervisor about the work health, safety and
	workplace for health, safety and environment. SA3. read notes/comments from the supervisor Writing Skills The user/individual on the job needs to know and understand how to: SA4. fill up documentation related to health, safety and environmental standards, if required Oral Communication (Listening and Speaking skills) The user/individual on the job needs to know and understand how to: SA5. verbally report health, safety and environmental hazards and poor organisation practice. SA6. communicate to the supervisor about the work health, safety and environmental issues
	workplace for health, safety and environment. SA3. read notes/comments from the supervisor Writing Skills The user/individual on the job needs to know and understand how to: SA4. fill up documentation related to health, safety and environmental standards, if required Oral Communication (Listening and Speaking skills) The user/individual on the job needs to know and understand how to: SA5. verbally report health, safety and environmental hazards and poor organisation practice. SA6. communicate to the supervisor about the work health, safety and environmental issues SA7. receive instructions from supervisor on minimizing the risks
	workplace for health, safety and environment. SA3. read notes/comments from the supervisor Writing Skills The user/individual on the job needs to know and understand how to: SA4. fill up documentation related to health, safety and environmental standards, if required Oral Communication (Listening and Speaking skills) The user/individual on the job needs to know and understand how to: SA5. verbally report health, safety and environmental hazards and poor organisation practice. SA6. communicate to the supervisor about the work health, safety and environmental issues SA7. receive instructions from supervisor on minimizing the risks SA8. communicate with co-workers about the precautions to be taken for hazards
	workplace for health, safety and environment. SA3. read notes/comments from the supervisor Writing Skills The user/individual on the job needs to know and understand how to: SA4. fill up documentation related to health, safety and environmental standards, if required Oral Communication (Listening and Speaking skills) The user/individual on the job needs to know and understand how to: SA5. verbally report health, safety and environmental hazards and poor organisation practice. SA6. communicate to the supervisor about the work health, safety and environmental issues SA7. receive instructions from supervisor on minimizing the risks
	workplace for health, safety and environment. SA3. read notes/comments from the supervisor Writing Skills The user/individual on the job needs to know and understand how to: SA4. fill up documentation related to health, safety and environmental standards, if required Oral Communication (Listening and Speaking skills) The user/individual on the job needs to know and understand how to: SA5. verbally report health, safety and environmental hazards and poor organisation practice. SA6. communicate to the supervisor about the work health, safety and environmental issues SA7. receive instructions from supervisor on minimizing the risks SA8. communicate with co-workers about the precautions to be taken for hazards







B. Professional Skills	Decision Making				
	The user/individual on the job needs to know and understand how to:				
	SB1. take preventive measures for the identified hazards				
	SB2. select appropriate hand tools and personal protection equipment				
	SB3. identify first aid needs in case of an injury				
	Plan and Organize				
	The user/individual on the job needs to know and understand how to:				
	SB4. incorporate elements of health, safety and environment in daily work				
	practices				
	Customer Centricity				
	The user/ individual on the job needs to know and understand how to:				
	SB5. ensure targeted product/ service delivery by practicing stipulated standards				
	of occupational health safety and environmental measures Problem Solving				
	The user/individual on the job needs to know and understand how to:				
	SB6. take care of personal and equipment protection				
	SB7. identify the hazards and suggest possible solutions				
	Analytical Thinking				
	The user/individual on the job needs to know and understand how to:				
	SB8. use safety equipment such as fire extinguisher during fire accidents				
	SB9. store chemicals and tools in a safe way				
	SB10. use tools and equipment without causing any injury to fellow workers				
	SB11. analyse the seriousness of the hazards				
	Critical Thinking				
	The user/individual on the job needs to know and understand how to:				
	SB12. evolve smooth workflow by avoiding hazards at workplace				
	SB13. evaluate and apply the possible solutions for the hazards, as necessary				







NOS Version Control

NOS Code	PCS/N9903					
Credits(NSQF)	TBD Version number 1.0					
Industry	Paints and Coatings	Drafted on	17/03/16			
Industry Sub-sector	Manufacturing and Application Last reviewed on 30/06/17					
Occupation	Quality Control	Next review date	30/06/19			

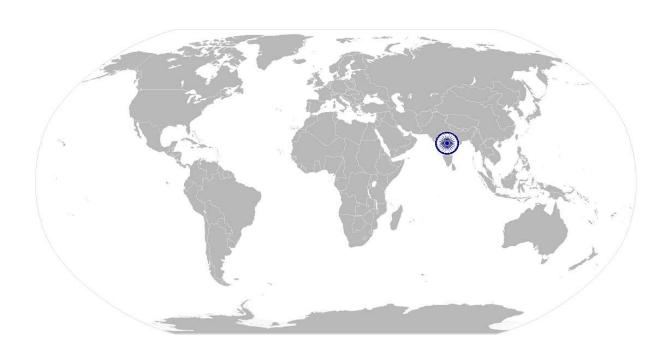






Maintain IPR of organisation and customer

National Occupational Standard



Overview

This unit is about securing intellectual property rights (IPR) of the employee's organisation and respecting customer's copyright.







PCS/N9904 Maintain IPR of organisation and customer

Unit Code	PCS/N9904
Unit Title (Task)	Maintain IPR of organisation and customer
Description	This OS unit is about securing intellectual property rights (IPR) of the employee's organisation and respecting customer's copyright
Scope	 This unit/task covers the following: Secure company's IPR Respect customers copyright

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

Element	Performance Criteria			
Securing company's	To be competent, the user/ individual must be able to:			
IPR	PC1. prevent leak of new plans and designs to competitors by reporting on time			
	PC2. be aware of any of company's product or design patents			
	PC3. report IPR violations observed in the market, to supervisor or company head			
Respecting	To be competent, the user/ individual must be able to:			
customer's copyright	PC4. read copyright clause of the material published on the internet and any other printed material			
	PC5. protect infringement upon customer's business or design plans			
	PC6. consult supervisor or senior management when in doubt about using			
	information available from customer			
	PC7. report any infringement observed by anyone in the company			

Knowledge and Understanding (K)

A. Organizational	The user/individual on the job needs to know and understand:			
Context (Knowledge of the company / organization and its processes) B. Technical Knowledge	KA1. company's policies on intellectual property rights and infringement reporting policy KA2. company's HR policies KA3. company's reporting structure KA4. company's documentation policy KA5. company's customer profile KA6. occupational health and safety standards The user/individual on the job needs to know and understand: KB1. patents and IPR laws KB2. how IPR protection is important for competitiveness of a company KB3. significance of damages resulting from IPR infringement KB4. industrial and political espionages			







Maintain IPR of organisation and customer

7/11/2/04	Maintain 11 K of organisation and customer				
Skills (S)					
A. Core Skills/	Reading Skills				
Generic Skills	The user/ individual on the job needs to know and understand:				
	SA1. read job sheets, company policy documents and information displayed at the				
	workplace on IPR				
	SA2. read notes/comments from the supervisor				
	Writing Skills				
	The user/ individual on the job needs to know and understand:				
	SA3. fill up documentation pertaining to one's role in protecting IPR infringement				
	Oral Communication (Listening and Speaking skills)				
	The user/ individual on the job needs to know and understand how to:				
	SA4. interact with team members to work efficiently				
	SA5. communicate effectively with the customers about IPR protection and				
	building trust				
B. Professional Skills	Decision Making				
	The user/individual on the job needs to know and understand how to:				
	SB1. identify IPR related issues				
	Plan and Organize				
	The user/individual on the job needs to know and understand how to:				
	SB2. prevent information leaks				
	SB3. Avoid being caught up in copyright issues				
	Customer Centricity				
	The user/individual on the job needs to know and understand how to:				
	SB4. inform superior about any copyright infringement				
	Problem Solving				
	NA				
	Analytical Thinking				
	The user/ individual on the job needs to know and understand:				
	SB5. basics of what constitutes IPR violations under WTO agreement				
	SB6. penalties to company or individual on evidence of IPR violations				
	SB7. likely effect of IPR violation on customer				
	Critical Thinking				
	The user/ individual on the job needs to know and understand how to:				
	SB8. improve work IPR related safety and adopting best practices				
	SB9. resolve conflicts related to IPR by reporting in time				







Maintain IPR of organisation and customer

NOS Version Control

NOS Code	PCS/N9904					
Credits(NSQF)	TBD Version number 1.0					
Industry	Paints and Coatings	Drafted on	17/03/16			
Industry Sub-sector	Manufacturing and Application Last reviewed on 30/06/17					
Occupation	Quality Control	Next review date	30/06/19			

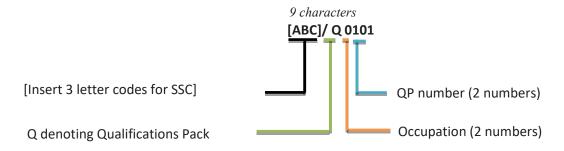




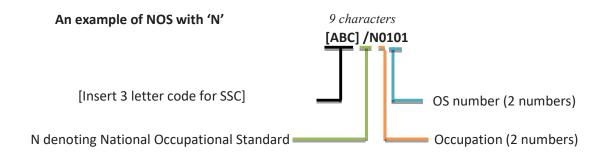
Annexure

Nomenclature for QP and NOS

Qualifications Pack



Occupational Standard



Back to top... 32

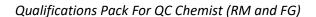




The following acronyms/codes have been used in the nomenclature above:

Sub-sector	Range of Occupation numbers
Manufacturing	01 - 49
Application	50 - 59
Unused	60 - 97
Generic occupation	98 - 99

Sequence	Description	Example
Three letters	Industry name	PCS
Slash	/	/
Next letter	Whether Q P or N OS	Q/N
Next two numbers Occupation code		01
Next two numbers	OS number	01







ASSESSMENT CRITERIA

Job Role: QC Chemist

Qualification Pack: PCS/Q0802

Sector Skill Council: Paints and Coatings

- 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 60% 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.

	Performance Criteria	Total Marks (250)	Out of	Theory	Skills Practical
PCS/N0801 Check quality of incoming raw materials and finished goods	PC1. prepare sample lots for testing of different types of raw materials including packaging materials, as per sampling procedure fro a given quantity or weight PC2. retract and collect samples from the bags, liquid containers or tankers and packaging materials PC3. document the sample details and prepare bags/ modules of the sample collected PC4. mark and label the samples as per standard quality management procedure PC5. avoid contamination of samples PC6. seal and send samples for testing to laboratory PC7. follow prescribed Quality Managment Systems PC8. identify the most appropriate equipment for QC testing as per standard quality management procedure, e.g., for solvent, or packaging material (plastic, tin, carton) or for extender powder or resin PC9. use recommended test and measurement process manual for tesing the sample PC10. create paint batch and record any R&D changes PC11. follow ISO standards as applicable	(230)	0.7 0.7 0.7 0.7 0.7 0.7 0.7 0.7	0.2 0.2 0.2 0.2 0.2 0.2 0.2 0.2	0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5
-	•	•	•		





Performance Criteria	Total Marks (250)	Out of	Theory	Skills Practical
PC12. use designated space for sample storage as per recommended standards, such as ambient temperature, moisture level, pests,				
theft and fire safety PC13. if possible, suggest remedy for		1	0.2	0.8
materials that have failed tests PC14. conduct regular and exceptional		1	0.2	0.8
testing as per the established standards for specific product categories		1	0.2	0.8
PC15. test for rentention period of materials as well as specified quality for production		1	0.2	0.8
PC16. conduct tests such as specific gravity, water content, evaporation ratio, etc. for solvent		1	0.2	0.8
PC17. conduct tests on powders such as appearance, colour, brightness, water, purity		1	0.2	0.8
PC18. conduct practical trials for recommended raw materials samples and check against prescribed standards and declared standards		1	0.2	0.8
PC19. conduct checks on drying time, viscosity, solid content, etc.		1	0.2	0.8
PC20. conduct tests on packaging materials, e.g., look, appearance, weight, dimension, drop test, bursting strength of carton, ply-strength, age classifying test		1	0.2	0.8
PC21. use brightness meter, melting point meter, gas liquid chromatography for solvent test, mositure analyser, Karl-Fischer instrument for water content, etc.		1	0.2	0.8
PC22. analyse the results and findings and suggest appropriate corrective action in consultantation with manufacturing / production incharge		1	0.2	0.8
PC23. conduct regular and exceptional testing as per the established standards for specific product categories		1	0.2	0.8
PC24. use dispersion guage		1	0.2	0.8
PC25. measure viscosity using instrument such as rotothinner		1	0.2	0.8
PC26. use glossometer for checking gloss level		1	0.2	0.8
PC27. use Elcometer for film thickness test		1	0.2	0.8





Performance Criteria	Total Marks (250)	Out of	Theory	Skills Practical
PC28. check performance on wall or metal or wood for the paint type		1	0.2	0.8
PC29. check corrosion resistance in salt- spray chamber		1	0.2	0.8
PC30. check UV resistance using weatherometer		1	0.2	0.8
PC31. conduct pencil hardness test		1	0.2	0.8
PC32. use stone chip resistence machine for resistance to gravel, etc.		1	0.2	0.8
PC33. use barcoding machine		1	0.2	0.8
PC34. use incubation chamber for logevity test		1	0.2	0.8
PC35. use ambient guage to measure surface condition before applying panis and coats		1	0.2	0.8
PC36. analyse the results and findings and suggest appropriate corrective action in consultantation with manufacturing / production incharge		1	0.2	0.8
PC37. ensure zero defect in finished product as per specified standards		1	0.2	0.8
PC38. check packaging of finished goods, e.g., type of packaging, damage, etc.		1	0.2	0.8
PC39. check lablelling is accurate and as per agreed/ spcified standards for the batch		1	0.2	0.8
PC40. ensure timely and safe dispatch of batch of finished goods to warehouse, without any logistics damage		1	0.2	0.8
PC41. record results and findings as per the established reporting and documentation templates		1	0.2	0.8
PC42. document sample progression, from sampling stage to testing and production		1	0.2	0.8
PC43. fill and dispatch copies for each batch of samples tested		1	0.2	0.8
PC44. prepare test conformance reports with pass or reject outcomes		1	0.2	0.8
PC45. record batch test results against prescribed tolerance level		1	0.2	0.8
PC46. ensure data and process integrity		1	0.2	0.8





Performance Criteria	Total Marks (250)	Out of	Theory	Skills Practical
PC47. calibrate the testing equipments for QC check periodically as per the standards		1	0.2	0.8
PC48. identify defective equipment and take appropriate corrective actions		1	0.2	0.8
PC49. clean the lab periodically, as per prescribed standards		1	0.2	0.8
PC50. clean the test apparatus as per prescribed standards		1	0.2	0.8
PC51. dispose materials to plant in usable condition		1	0.2	0.8
PC52. maintain lab safety standards		1	0.2	0.8
PC53. stacking and labelling of samples as per prescribed standards		1	0.2	0.8
POINTS		50	10.6	39.4
TOTAL POINTS			50	

	Performance Criteria	Total Marks (250)	Out of	Theory	Skills Practical
	PC1. receive job order and instructions from reporting superior		0.5	0.0	0.5
	PC2. understand the work output requirements, targets, performance indicators and incentives		2.0	0.5	1.5
	PC3. deliver quality work on time and report any anticipated reasons for delays		2.0	0.5	1.5
	PC4. escalate unresolved problems or complaints to the relevant senior		2.0	0.5	1.5
	PC5. communicate maintenance and repair schedule proactively to the superior		2.0	0.5	1.5
PCS/N9901	PC6. receive feedback on work standards		1.0	0.0	1.0
Coordinate with colleagues and/or customers	PC7. document the completed work schedule and handover to the superior	50	2.0	0.5	1.5
customers	PC8. exhibit trust, support and respect to all the colleagues in the workplace		1.0	0.25	0.75
	PC9. aim to achieve smooth workflow		2.0	0.5	1.5
	PC10. help and assist colleagues with information and knowledge		1.0	0.0	1.0
	PC11. seek assistance from the colleagues when required		1.0	0.25	0.75
	PC12. identify the potential and existing conflicts with the colleagues and resolve		1.0	0.25	0.75
	PC13. pass on essential information to other colleagues on timely basis		1.0	0.0	1.0





Performance Criteria	Total Marks (250)	Out of	Theory	Skills Practical
PC14. maintain the etiquette, use polite language, demonstrate responsible and disciplined behaviors to the colleagues		2.0	0.5	1.5
PC15. interact with colleagues from different functions clearly and effectively on all aspects to carry out the work among the		1.0	0.25	0.75
team and understand the nature of their work PC16. put team over individual goals and		2.0	0.0	3.0
multi task or share work where necessary supporting the colleagues PC17. highlight any errors of colleagues,		2.0	0.0	2.0
help to rectify and ensure quality output PC18. work with cooperation, coordination,		1.0	0.25	0.75
communication and collaboration, with shared goals and supporting each other's performance		1.0	0.0	1.0
PC19. ask more questions to the customers and identify their needs		1.0	0.25	0.75
PC20. possess strong knowledge on the product, services and market		2.0	0.5	1.5
PC21. brief the customers clearly on potential costs and hazards		1.0	0.25	0.75
PC22. communicate with the customers in a polite, professional and friendly manner		1.0	0.25	0.75
PC23. build effective but impersonal relationship with the customers PC24. ensure the appropriate language and		0.5	0.25	0.25
tone are used with customers PC25. listen actively and have a two way		1.0	0.25	0.75
communication PC26. be sensitive to the gender, cultural		1.0	0.25	0.75
and social differences such as modes of greeting, formality, etc.		1.0	0.25	0.75
PC27. understand the customer expectations correctly and provide the appropriate products and services		2.0	0.5	1.5
PC28. understand the customer dissatisfaction and address or escalate their complaints effectively		2.0	0.5	1.5
PC29. maintain a positive, sensible and cooperative manner all time		1.0	0.25	0.75
PC30. ensure to maintain a proper body language, dress code, gestures and etiquettes towards the customers		1.0	0.25	0.75
PC31. avoid interrupting the customers while they talk		1.0	0.0	1.0
PC32. ensure to avoid negative questions and statements to the customers		1.0	0.0	1.0





Performance Criteria	Total Marks (250)	Out of	Theory	Skills Practical
PC33.inform the customers on any issues or problems before hand and also on the developments involving them		2.0	0.5	1.5
PC34. ensure to respond back to the customer immediately for their voice messages, e-mails, apps, etc.		1.0	0.0	1.0
PC35. develop good rapport with the customers and promote other products and services		2.0	0.5	1.5
PC36. seek feedback from the customers on their understanding to what was discussed		1.0	0.0	1.0
PC37. explain the terms and conditions clearly		2.0	0.5	1.5
POINTS		50	10	40
TOTAL POINTS			Į.	50

	Performance Criteria	Total Marks (250)	Out of	Theory	Skills Practical
	PC1. keep in mind the profiles of expected customers		2.0	0.5	1.5
	PC2. understand the target customers and their product/ service quality requirements as defined by the company		3.0	0.5	2.5
	PC3. receive superior's/ customer feedback regularly		2.0	0.0	2.0
	PC4. aim to build a good connect with the customers through quality product/ service		2.0	0.5	1.5
	PC5.keep tab on frequent discussions with regular customers on general likes and dislikes in the market, latest trends, customer expectations, etc.		2.0	0.5	1.5
PCS/N9902 Maintain standards of product/ service	PC6. receive updates on regular feedbacks from the clients on current service, complaints, and improvements to be made, etc.	50	2.0	0.5	1.5
quality	PC7. if necessary, compulsively seek customer rating of product/ service in order to help develop a set of regularly improved procedures		2.0	0.5	1.5
	PC8. demonstrate quality orientation at all level		4.0	1.5	2.5
	PC9. aim to gain their long lasting loyalty through satisfaction		3.0	1.0	2.0
	PC10. ensure 100% customer satisfaction via product/ service quality		3.0	0.5	2.5
	PC11.treat the customers fairly and with due respect		3.0	0.5	2.5
	PC12. focus on executing company's marketing strategies and product		3.0	1.0	2.0





Performance Criteria	Total Marks (250)	Out of	Theory	Skills Practical
development needs				
PC13. focus on enhancing brand value of company by maintaining or enhancing quality standards		3.0	1.0	2.0
PC14. ensure that customer expectations are met		2.0	0.5	1.5
PC15. learn to read customers' needs and wants		2.0	0.5	1.5
PC16. willingly accept and implement new and innovative products and services that help improve customer satisfaction		3.0	1.0	2.0
PC17. communicate feedback of customer to senior, especially, the negative feedback		2.0	0.5	1.5
PC18. maintain close contact with the customers and focus groups		2.0	0.5	1.5
PC19. offer promotions to improve product satisfaction level to the customers periodically		3.0	1.0	2.0
PC20. weigh the cost of fulfilling unscheduled customer requests, consult with senior and advise the customer on alternatives		2.0	0.5	1.5
POINTS		50	13	37
TOTAL POINTS				50

	Performance Criteria	Total Marks (250)	Out of	Theory	Skills Practical
	PC1. assess the various health, safety and environmental hazards in the work areas		1.5	0.4	1.1
	PC2. take necessary steps to eliminate or minimize the hazards		1.0	0.4	0.6
	PC3. analyze the causes of accidents at the workplace		1.5	0.4	1.1
PCS/N9903	PC4. suggest measures to prevent such accidents from taking place		1.5	0.4	1.1
Maintain O&HS standards and follow environmental	PC5. take preventive measures to avoid risk of burns and other injury due to contact with hot surfaces, gas, fire, hot fluids/ liquids, etc.	50	1.5	0.4	1.1
norms	PC6. suggest methods to improve the existing safety procedures at the workplace		1.5	0.4	1.1
	PC7. dispose waste in the designated areas safely as per company's policies and rules		1.5	0.4	1.1
	PC8. maintain appropriate ventilation in the rooms while there is more exposure to paint vapours		1.0	0.4	0.6





Performance Criteria	Total Marks (250)	Out of	Theory	Skills Practical
PC9. avoid dumping unused cans to safeguard the environment		1.0	0.0	1.0
PC10. be aware of the locations of fire		1.0	0.4	0.6
extinguishers, emergency exits, etc.		1.0	0.4	0.0
PC11. practice correct emergency procedures		1.5	0.4	1.1
PC12. check and review the storage areas frequently		1.5	0.4	1.1
PC13. stack items in an organized way and use safe lifting techniques to reduce risk of injuries from handling procedures at the storage areas		1.5	0.4	1.1
PC14. ensure to be safe while handling materials, tools, acids, chemicals, equipment, etc.		1.0	0.4	0.6
PC15. store the chemicals and acids in a well-ventilated and locked areas with warning signs displayed		1.5	0.4	1.1
PC16. ensure safe techniques while moving furniture and fixtures		1.5	0.4	1.1
PC17. ensure to reduce risk of injury from use of electrical tools		1.5	0.4	1.1
PC18. read the manufacturer's manual carefully before use of any equipment		1.0	0.0	1.0
PC19. unplug the electrical equipment before performing maintenance		1.0	0.4	0.6
PC20. keep the floors free from oil, water and grease to avoid slippery surface		1.0	0.4	0.6
PC21. use rubber mats in the places where floors are constantly wet		1.0	0.0	1.0
PC22. ensure safety from injuries of cuts to loss of fingers, while handling sharp hazardous tools and equipment		1.5	0.4	1.1
PC23. use flat surfaces, secure holding and protective wear while using such sharp tools		1.5	0.4	1.1
PC24. use health, safety and environmental protection practices for storing, cleaning, and maintaining tools, equipment, and supplies		1.5	0.4	1.1
PC25. practice ergonomic lifting, bending, or moving equipment and supplies		1.5	0.4	1.1
PC26. identify the requirement for maintaining environmental norms		1.0	0.4	0.6
PC27. comply with the environmental safety norms while on work to prevent accidents and health hazards		1.0	0.4	0.6
PC28. follow company policies and rules regarding use of hazardous materials to avoid health, safety and environmental impacts		1.0	0.4	0.6

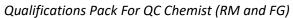




Performance Criteria	Total Marks (250)	Out of	Theory	Skills Practical
caused by them	, ,			
PC29. ensure the employees have access to first aid kit when needed		1.0	0.0	1.0
PC30. ensure all equipment and tools are stored and maintained properly and safe to use		1.0	0.4	0.6
PC31. ensure to use personal protective equipment and safety gear such as gloves, mask, headwear, footwear, glasses, goggles, etc. for specific tasks and work conditions where required		1.5	0.4	1.1
PC32. ensure to display safety signs at places where necessary for people to be cautious		1.5	0.4	1.1
PC33. ensure electrical precautions such as insulated clothing, adequate equipment insulation, dry work area, switch off the power supply when not required, etc.		1.5	0.4	1.1
PC34. ensure availability of general health and safety equipment such as fire extinguishers, first aid equipment, safety equipment, clothing, safety installations such as fire exits, exhaust fans, etc.		1.5	0.4	1.1
PC35. document all the first aid treatments, inspections, etc., conducted to keep track of the safety measures undertaken		1.0	0.4	0.6
PC36. document all the environmental hazards caused and the measures undertaken to comply with the established safety procedures of the workplace		1.0	0.0	1.0
PC37. report to the supervisor on any problems and hazards identified and any breach of environmental procedures.		1.0	0.4	0.6
PC38. ensure zero accident at workplace		1.0	0.4	0.6
PC39. adhere to safety standards and ensure no material damage		1.0	0.4	0.6
PC40. take necessary action and correct any environmental hazards caused		1.0	0.4	0.6
POINTS		50	14	36
TOTAL POINTS				50

	Performance Criteria	Total Marks (250)	Out of	Theory	Skills Practical
PCS/N9904 Maintain IPR of	PC1. prevent leak of new plans and designs to competitors by reporting on time	50	7.0	0.0	7.0
organisation and	PC2. be aware of any of company's product		8.0	1.0	7.0







	Performance Criteria	Total Marks (250)	Out of	Theory	Skills Practical
customer	or design patents				
	PC3. report IPR violations observed in the market, to supervisor or company head		8.0	2.0	6.0
	PC4. read copyright clause of the material published on the internet and any other printed material		8.0	0.5	7.5
	PC5. protect infringement upon customer's business or design plans		8.0	2.0	6.0
	PC6. consult supervisor or senior management when in doubt about using information available from customer		6.0	0.0	6.0
	PC7. report any infringement observed by anyone in the company		5.0	0.0	5.0
	POINTS		50	5.5	44.5
	TOTAL POINTS			50	
	GRAND TOTAL	250			