



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

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Introduction

Qualifications Pack: Extrusion Operator

SECTOR: PAINTS AND COATINGS

SUB-SECTOR: MANUFACTURING

OCCUPATION: Production – Powder Coating

REFERENCE ID: PCS/Q0602

ALIGNED TO: NCO-2004/ NIL

The Extrusion Operator converts the raw materials into flakes after premixing, in line with the process chart, and operating the mill.

Brief Job Description: The individual at work feeds the raw materials for premixing and operates the extrusion machine in order to obtain the flakes, for powder paint manufacturing process, as per company's or customer's specifications working under supervision

Personal Attributes: The job requires the individual to have: good physical strength, ability to work in paint-redolent environment, attention to details, good eyesight, and superior hand-eye coordination.





Qualifications Pack Code	PCS/Q0602		
Job Role	Extrusion Operator		
Credits(NSQF)	TBD	Version number	1.0
Sector	Paints and Coatings	Drafted on	17/02/16
Sub-sector	Manufacturing	Last reviewed on	31/03/16
Occupation	Production - Powder Coating	Next review date	31/03/18
NSQC Clearance on	NA		

Job Role	Extrusion Operator	
Role Description	Converting the raw materials into flakes after pre-mixing in line with the process chart and by operating the mill	
NSQF level Minimum Educational Qualifications Maximum Educational Qualifications	Preferably 5 TH Standard 12 th standard	
Training (Suggested but not mandatory)	Not Applicable	
Minimum Job Entry Age	18 years	
Experience	Not Applicable	
Applicable National Occupational Standards (NOS)	Compulsory: 1. PCS/N0602 Pre-mix the raw materials 2. PCS/N0603 Operate the extrusion mill 3. PCS/N9901 Coordinate with colleagues and customers 4. PCS/N9902 Maintain standards of product/ service quality 5. PCS/N9903 Maintain OH&S standards and follow environmental norms Optional: 1. 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



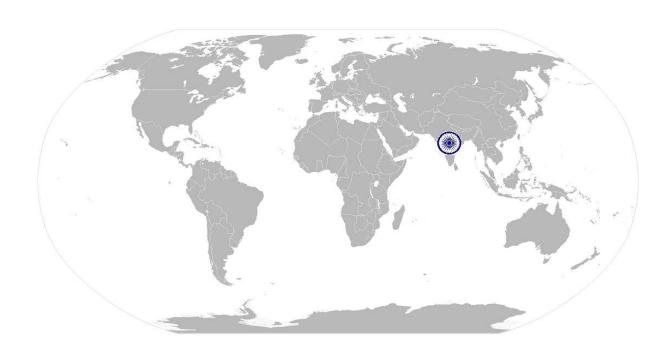






Pre-mix the raw materials

National Occupational Standard



Overview

This unit is about pre-mixing the raw materials by understanding the process work sheet in line with company's or customer's specifications







Pre-mix the raw materials

PCS/N0602	Pre-mix the raw materials
Unit Code	PCS/N0602
Unit Title	Pre-mix the raw materials
(Task)	Pre-illix the raw illaterials
Description	This OS unit is about pre-mixing the raw materials by understanding the process work
	sheet in line with company's or customer's specifications
Scope	This unit/task covers the following:
	Understand the process work or doc-sheet
	Collect the requisite raw materials from store
	Calibrate the mixer
	Pre mix the raw materials
	Range statement: Extrusion machine, weigh tools
Performance Criteria(P	PC) w.r.t. the Scope
Element	Performance Criteria
Understanding the	To be competent, the user/ individual must be able to:
process sheet	PC1. receive the process doc-sheet from the shift in-charge or production
	supervisor
	PC2. understand the overall process flow
	PC3. understand the specific instructions pertaining to the pre mix and extruder
	PC4. assimilate the materials required
Collecting the	To be competent, the user/ individual must be able to:
requisite raw	PC1. understand the raw materials resin, hardener, pigment, additive, fillers, etc
materials from store	required for the batch
	PC2. understand the location of the above mentioned class of raw materials in the
	store
	PC3. weigh the appropriate quantities of the raw materials using the appropriate
	aids and equipment like scales, gloves, etc
	PC4. replace the excess raw materials in the appropriate locations
Calibratia a tha maissa	PC5. record the details of the raw materials taken for the batch
Calibrating the mixer	To be competent, the user/ individual must be able to: PC6. identify the mixer controls in the equipment control room or chamber
	PC7. calibrate the mixer by modifying specifications such as temperature, flow,
	discharge control, etc.
	PC8. ensure the calibration is in line with the process requirements
	PC9. ensure the other equipment controls are not modified, once set
	PC10. notify the shift in-charge or production supervisor about completion of
	calibration before exiting the equipment control room or chamber
Pre mixing the raw	To be competent, the user/ individual must be able to:
materials	PC11. take the weighed raw materials like resin, hardener, pigment, additive, fillers,
	etc
	PC12. approach the mixer and position appropriately to load the same
	PC13. load the mixer with the raw materials







	Corporation
PCS/N0602	Pre-mix the raw materials
	PC14. ensure that the mixing process is carried out for the requisite time
	PC15. ensure that the mixed by-product moves to the extruder PC16. halt the mixer after a particular batch, if required
Karalalara dilaka	
Knowledge and Unders	
A. Organizational Context (Knowledge of the company / organization and its processes)	The individual on the job needs to know and understand: KA1. company's policy and work instructions on quality standards, KA2. company's personnel management and incentives rules KA3. importance of the individual's role in the workflow KA4. reporting structure KA5. occupational health and safety standards KA6. production area layout and quality standards KA7. store area layout
B. Technical Knowledge	The individual on the job needs to know and understand: KB1. different types of powder paints, their properties and uses KB2. overall powder paint manufacturing process KB3. basic properties of various resins, additives and other chemicals used KB4. standard operating procedures of powder paint manufacturing process KB5. mechanism of mixer operation KB6. different types of mixers available in the market and their uses KB7. significance of various process controls, e.g., air velocity and pressure gauges, rejecter elements and aperture, rejecter speed, feed and air rations KB8. regular maintenance requirements of the mixer KB9. mixer calibration process and precautions KB10. the significance of use of safety gear while operating the mixer KB11. the output of every sub process in the overall powder manufacturing process KB12. quality standards as per company's standards KB13. weighing tools and methodologies KB14. store material recording KB15. material handling
Skills (S)	
A. Core Skills/ Generic Skills	Reading Skills The user/individual on the job needs to know and understand how: SA1. to read company's work instructions, docs and quality policy SA2. to read instruction manuals Writing Skills The user/individual on the job needs to know and understand how: SA3. to maintain the record as per company's policy SA4. to note down calibration details SA5. to note down details of raw materials taken for a particular batch
	Oral Communication (Listening and Speaking skills) The user/individual on the job, needs to know and understand how to:
	The user/individual on the job needs to know and understand how to:







Pre-mix the raw materials

PCS/N0602	Pre-mix the raw materials
	SA6. interact with shift in-charge or production supervisor for smooth workflow SA7. convey process related concerns and work status in time for shift in-charge or
	production supervisor in professionally acceptable language
	SA8. interact with other team members in the production area in order to achieve
	time and quality related targets smoothly
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B. Professional Skills	Decision Making
	The user/individual on the job needs to know and understand how:
	SB1. to calibrate the mixer using controls
	SB2. to take the right quantities of raw materials depending on process sheet
	Plan and Organize
	The user/individual on the job needs to know and understand how:
	SB3. to schedule the sequence of work process
	SB4. to arrange for materials, tools, logistics, machines and required to do the work
	SB5. to communicate to persons involved in the process as per company's standards
	SB6. to carry necessary documents as per company's standards
	Customer Centricity
	The user/individual on the job needs to know and understand how to:
	SB7. ensure the completion of work as per the process sheet to adhere to customer expectation
	Problem Solving
	The user/individual on the job needs to know and understand how to: SB8. resolve work related problems in the powder paint production process by effective communication or escalating to superior
	Analytical Thinking
	The user/individual on the job needs to know and understand how to:
	SB9. interpret process sheet
	SB10. manage the preparation process so that the pre-mixing may be done in line
	with process requirements
	SB11. improve work process to optimise time
	SELLI IIIIPIOVE WORK PROCESS to optimise time
	Critical Thinking
	The user/individual on the job needs to know and understand how to:
	SB12. flag process deviation or delays
	SB13. achieve specified productivity standards



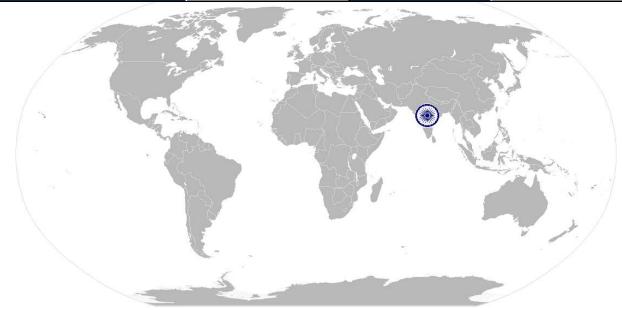




Pre-mix the raw materials

NOS Version Control

NOS Code	PCS/N0602		
Credits(NSQF)	TBD	Version number	1.0
Industry	Paints and Coatings	Drafted on	17/02/16
Industry Sub-sector	Manufacturing	Last reviewed on	31/03/16
Occupation	Production – Powder Coating	Next review date	31/03/18







PAINTS AND COATINGS





Operate the extrusion mill

National Occupational Standard



Overview

This unit is about operating the extrusion mill in order to obtain the flakes for further grinding into powder paint.







Operate the extrusion mill

PCS/NU6U3	Operate the extrusion mili
Unit Code	PCS/N0603
Unit Title (Task)	Operate the extrusion mill
Description	This OS unit is about operating the extrusion mill in order to obtain the flakes for further grinding into powder paint
Scope	This unit/task covers the following:
	Calibrate the extruder
	Operate the extruder
	Visually track the quality of powder paint process
	Clean the extruder
	Range statement: Extrusion machine, weigh tools
Performance Criteria(P	
Element	Performance Criteria
Calibrating the extruder	To be competent, the user/individual must be able to: PC1. identify extruder controls in the equipment control room or chamber PC2. calibrate the extruder by modifying specifications such as temperature, flow,
	pressure, etc. PC3. ensure the calibration is in line with process requirements
	PC4. ensure the other equipment controls are not modified, once set
	PC5. notify the shift in-charge or production supervisor about completion of
Operating the	calibration before exiting the equipment control room or chamber To be competent, the user/ individual must be able to:
extruder	PC6. operate the extruder as per standard operating procedure
	PC7. ensure the flakes are discharged in the discharge crater
	PC8. ensure the flakes are cooled for the stipulated time
	PC9. ensure the ground product moves to the next stage, i.e., grinding process in stipulated time and as per specified quality standards
	PC10. cease the operation once the batch is completed
Visual tracking of	To be competent, the user/ individual must be able to:
quality of powder	PC11. inspect the overall process flow in order to achieve productivity standards
paint process	PC12. visually assess the flakes from the extruder to check if they are in line with process requirement
	PC13. notify the shift in-charge / production supervisor in case of any significant deviation from the process requirements
Cleaning the extruder	To be competent, the user/ individual must be able to:
	PC14. identify the various parts / chambers of the extruder
	PC15. understand how the extruder needs to be handled during cleaning
	PC16. clean the various parts of the extruder like barrel, liner, flow channels, etc.
Vnowledge and Under	PC17. make the extruder ready in working condition for next batch
Knowledge and Unders	
A. Organizational	The individual on the job needs to know and understand: KA1. company's policy and work instructions on quality standards,
	MAL. Company 5 policy and work instructions on quality standards,







Operate the extrusion mill

1 C5/110005	Operate the extrusion inin	
Context	KA2. company's personnel management and incentives rules	
(Knowledge of the	KA3. importance of the individual's role in the workflow	
company /	KA4. reporting structure	
	KA5. occupational health and safety standards	
organization and	KA6. production area layout and standards	
its processes)	KA7. cleanliness norms of organization	
	KA7. Cleaniness norms of organization	
B. Technical	The individual on the job needs to know and understand:	
Knowledge	KB1. various types of materials used to clean the extruder	
Miowicage	KB2. overall powder paint manufacturing process	
	KB3. effects of various resins, additives and other chemicals on extruder and how	
	they need to be cleaned	
	KB4. various parts of the extruder such as barrel, liner, flow channels frame, etc.	
	KB5. different types of extruders available in the market and their cleaning	
	procedures	
	KB6. regular maintenance requirements of the extruder	
	KB7. extruder calibration process and precautions	
	KB8. extruder operation procedures	
	KB9. the significance of use of safety gear while cleaning the extruder	
	KB10. impact of calibration parameters on the overall process	
	KB11. cooling period for the flakes depending on the end product	
	KB12. significance of making the extruder ready for the next batch post cleaning	
	KB13. waste disposal techniques	
	· '	
	, ,	
	KB15. various cleaning techniques	
	KB16. the handling of supplies and tools in safe and sound manner	
	KB17. quality standards that have to be maintained while cleaning	
Skills (S)		
A. Core Skills/	Reading Skills	
Generic Skills	The user/individual on the job needs to know and understand how:	
Generic Skiiis	SA1. to read company's work instructions and quality policy	
	SA2. to read instructions displayed	
	SAZ. To read instructions displayed	
	Writing Skills	
	The user/individual on the job needs to know and understand how:	
	•	
	SA3. to complete the necessary documentation as per company's work instructions	
	SA4. to create and maintain cleaning records	
	Onel Communication (Listoning and Coording skills)	
	Oral Communication (Listening and Speaking skills)	
	The user/individual on the job needs to know and understand how:	
	SA5. listen to shift in-charge / production supervisor	
	SA6. answer the queries of shift in-charge / production supervisor in professionally	
	acceptable language	
	SA7. interact with other team members in the production area	
	J	







DCC/NOG02

PCS/N0603	Operate the extrusion mill		
B. Professional Skills	Decision Making		
	The user/individual on the job needs to know and understand how:		
	SB1. to select the chemical for effective extruder cleaning		
	SB2. to undertake extruder cleaning using chemicals and manual tools without		
	damaging it		
	SB3. to inform shift in charge / production supervisor in time about any problems or		
	hazards		
	SB4. to calibrate the extruder parameters like temperature, pressure, time, etc.		
	Plan and Organize		
	The user/individual on the job needs to know and understand how:		
	SB5. to prepare for contingencies or rescheduling or special requirements		
	SB6. to prioritize the work process in order to complete as per agreed schedule		
	SB7. to work in coordination with co-workers to do the quality work in time		
	SB8. to manage time so that the overall production flow is not impacted		
	Customer Centricity		
	The user/individual on the job needs to know and understand how to:		
	SB9. ensure the completion of work as per the process sheet to adhere to customer		
	expectation		
	CAPCCULION		
	Problem Solving		
	The user/individual on the job needs to know and understand how:		
	SB10. to solve work related problems, e.g., cleaning equipment management		
	SB11. to coordinate with team and customer to find satisfactory solutions to		
	contingences		
	Analytical Thinking		
	The user/individual on the job needs to know and understand how to:		
	SB12. use varieties of hand tools like clean spray hose, brush or stick etc.		
	SB13. undertake routine maintenance of hand tools		
	SB14. estimate the time taken for extruder cleaning		
	SB15. assess effort required for extruder cleaning		
	SB16. assess and estimate the chemicals and tools required for extruder cleaning		
	SB17. assemble the extruder post cleaning		
	SB18. interpret process sheet		
	SB19. manage the preparation process so that the extrusion may be done in line with		
	process requirements		
	SB20. improve work process to optimise time		
	SB21. ensure the flakes have cooled sufficiently before grinding		
	Critical Thinking		
	The user/individual on the job needs to know and understand how to:		
	SB22. flag process deviation or delays		



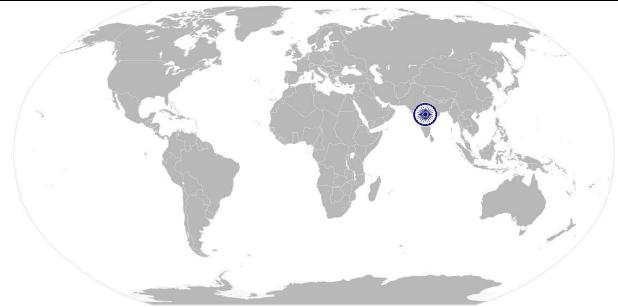




Operate the extrusion mill

NOS Version Control

NOS Code	PCS/N0603		
Credits(NSQF)	TBD	Version number	1.0
Industry	Paints and Coatings	Drafted on	17/02/16
Industry Sub-sector	Manufacturing	Last reviewed on	31/03/16
Occupation	Production – Powder Coating	Next review date	31/03/18



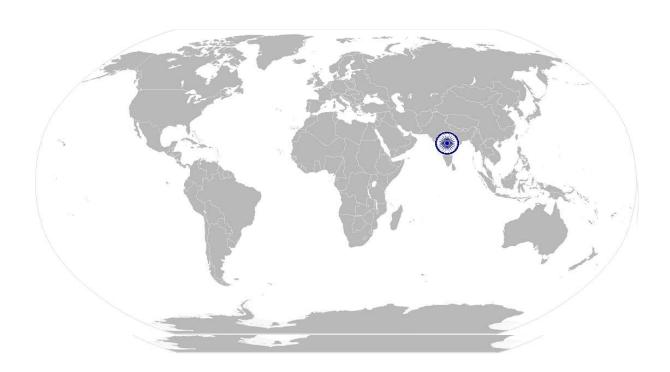






PCS/N9901 Coordinate with colleagues and/ or customers

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

Communicate with colleagues and/ or customers

Unit Code	PCS/N9901	
Unit Title	Coordinate with colleagues and/or customers	
(Task)		
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(F	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 repairedule 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	
coneagues	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	
	shared goals and supporting each others performance	
Communicating	To be competent, the user/ individual must be able to:	
effectively with	PC19. ask more questions to the customers and identify their needs	
customers, if	PC20. possess strong knowledge on the product, services and market	
required	PC21. brief the customers clearly on potential costs and hazards	
	PC22. communicate with the customers in a polite, professional and friendly manner	
	PC23. build effective but impersonal relationship with the customers	







Coordinate with colleagues and/ or 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 clear
Knowledge and Unders	tanding (K)
A Organizational	The user/individual on the job needs to know and understand:

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?		







Coordinate with colleagues and/ or 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		
	KB11. importance of dealing with grievances effectively and in time		
Skills (S)	insperions of acaming with grievances encourtery and in time		
A. Core Skills/	Reading Skills		
Generic Skills	Reading Skills The user/ individual on the job needs to know and understand how to:		
Generic Skills	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		
	SAS. This 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 to build a good rapport with		
	them		
	SA7. use language that the customer or compague 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		

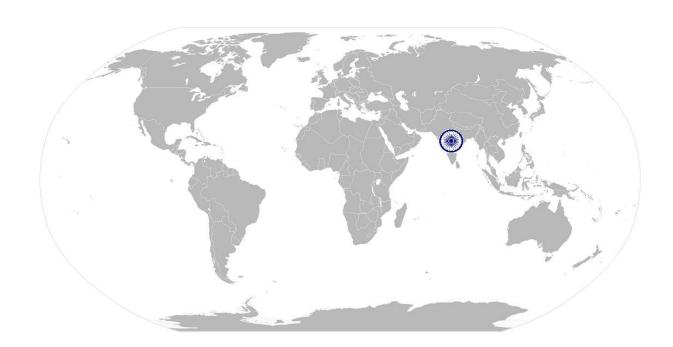






Coordinate with colleagues and/ or customers

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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





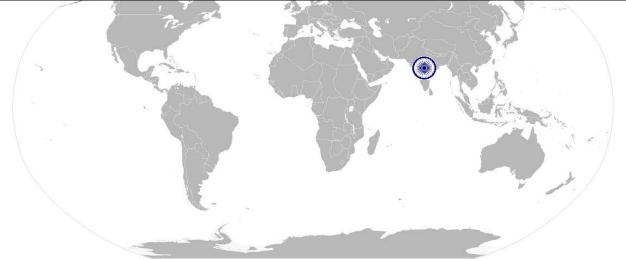




Coordinate with colleagues and/ or customers

NOS Version Control

NOS Code	PCS/N9901		
Credits(NSQF)	TBD	Version number	1.0
Industry	Paints and Coatings	Drafted on	17/02/16
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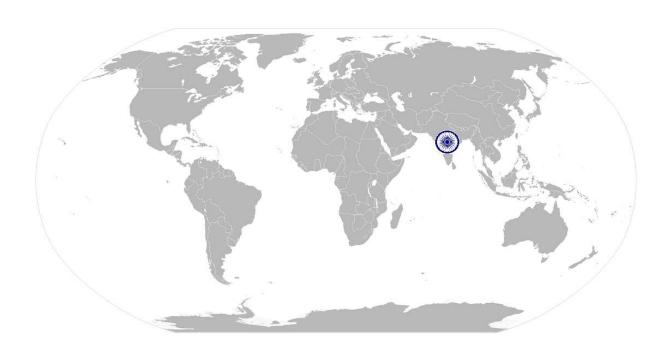
PAINTS AND COATINGS

National Occupational Standards



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 from regularly 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	
Achieving 100% 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

PCS/N9902	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		
Knowledge and Unders	standing (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 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 		
B. Technical Knowledge	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		
Skills (S)			
A. Core Skills/ Generic Skills	Reading 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 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 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		







PCS/N9902 Maintain standards of product/ service quality

	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 department of 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		







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	17/02/16	
Industry Sub-sector	Manufacturing and Application	Last reviewed on	31/03/16	
Occupation	Production – Powder Coating	Next review date	31/03/18	



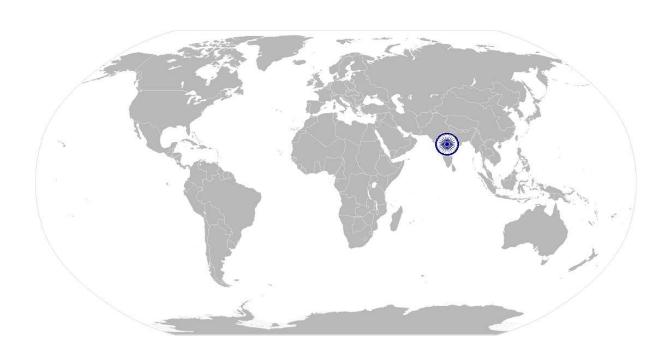






Maintain OH&S standards and follow environmental norms

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)	Maintain OH&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	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	
environmental hazards	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 PC9. avoid dumping unused cans to safeguard the environment	
Following standard health, safety and environmental policies and procedure	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	







FCS/N9903 Mai	ntain 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.
Achieving health, safety and environmental standards	insulation, dry work area, switch off the power supply when not required, etc. 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. To be competent, the user/individual must be able to: PC35. document all the first aid treatments, inspections, etc., conducted to keep track of the safety measures undertaken PC36. document all the environmental hazards caused and the measures undertaken to comply with the established safety procedures of the workplace PC37. report to the supervisor on any problems and hazards identified and any breach of environmental procedures. PC38. ensure zero accident at workplace PC39. adhere to safety standards and ensure no material damage PC40. take necessary action and correct any environmental hazards caused
Knowledge and Unders	
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 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 free work







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	17/02/16			
Industry Sub-sector	Manufacturing and Application	31/03/16				
Occupation	Production - Powder Coating	Next review date	31/03/18			

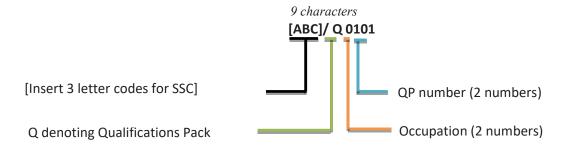




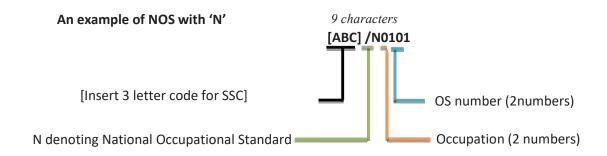
Annexure

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
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: Extrusion Operator Qualification Pack: PCS/Q0602

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
	PC1. receive the process doc-sheet from				
	the shift in-charge or production supervisor		2.5	1	1.5
	PC2. understand the overall process flow		2.5	1	1.5
	PC3. understand the specific instructions pertaining to the premix and extruder		2.5	1	1.5
	PC4. assimilate the materials required	1		_	1.5
			2.5	1	1.5
	PC5. understand the raw materials resin, hardener, pigment, additive, fillers, etc. required for the batch	50	2.5	1	1.5
PCS/N0602	PC6. understand the location of the above mentioned class of raw materials in the store		2.5	1	1.5
Premix the raw materials	PC7. weigh the appropriate quantities of the raw materials using the appropriate aids and equipment like scales, gloves, etc		2.5	1	1.5
	PC8. replace the excess raw materials in the appropriate locations		2.5	1	1.5
	PC9. record the details of the raw materials taken for the batch		2.5	1	1.5
	PC10. identify the mixer controls in the equipment control room or chamber		2.5	1	1.5
	PC11. calibrate the mixer by modifying specifications such as temperature, flow,				
	discharge control, etc.		2.5	1	1.5
	PC12. ensure the calibration is in line with the process requirements		2.5	1	1.5





Performance Criteria	Total Marks (250)	Out of	Theory	Skills Practical
PC13. ensure the other equipment controls				
are not modified, once set		2.5	1	1.5
PC14. notify the shift in-charge or production				
supervisor about completion of calibration				
before exiting the equipment control room or				
chamber		2.5	1	1.5
PC15. take the weighed raw materials like				
resin, hardener, pigment, additive, fillers, etc		2.5	1	1.5
PC16. approach the mixer and position				
appropriately to load the same		2.5	1	1.5
PC17. load the mixer with the raw materials				
		2.5	1	1.5
PC18. ensure that the mixing process is				
carried out for the requisite time		2.5	1	1.5
PC19. ensure that the mixed by-product				
moves to the extruder		2.5	1	1.5
PC20. halt the mixer after a particular batch,				
if required		2.5	1	1.5
POINTS		50	20	30
TOTAL POINTS			50	

	Performance Criteria	Total Marks (250)	Out of	Theory	Skills Practical
	PC1. identify extruder controls in the				
	equipment control room or chamber		2.5	1	1.5
	PC2. calibrate the extruder by modifying				
	specifications such as temperature, flow,				
	pressure, etc.		3	1	2
	PC3. ensure the calibration is in line with				
	the process requirements		3	1	2
	PC4. ensure the other equipment controls				
	are not modified, once set	50	3	1	2
	PC5. notify the shift in-charge or production				
PCS/N0603	supervisor about completion of calibration				
Operate the	before exiting the equipment control room or				
extrusion mill	chamber		3	1	2
	PC6. operate the extruder as per standard				
	operating procedure		3	1	2
	PC7. ensure the flakes are discharged in the				
	discharge crater		3	1	2
	PC8. ensure the flakes are cooled for the				
	stipulated time		3	1	2
	PC9. ensure the ground product moves to				
	the next stage, i.e., grinding process in				
	stipulated time and as per specified quality				
	standards		3	1	2





Performance Criteria	Total Marks (250)	Out of	Theory	Skills Practical
PC10. cease the operation once the batch is completed		3	1	2
PC11. inspect the overall process flow in order to achieve productivity standards		3	1	2
PC12. visually assess the flakes from the extruder to check if they are in line with process requirement		3	1	2
PC13. notify the shift in-charge / production supervisor in case of any significant deviation from the process requirements		3	1	2
PC14. identify the various parts / chambers of the extruder		3	1	2
PC15. understand how the extruder needs to be handled during cleaning		3	1	2
PC16. clean the various parts of the extruder like barrel, liner, flow channels, etc.		3	1	2
PC17. make the extruder ready in working condition for next batch		2.5	1	1.5
POINTS		50	17	33
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	50	2.0	0.5	1.5
	PC4. escalate unresolved problems or complaints to the relevant senior		2.0	0.5	1.5
PCS/N9901 Coordinate with	PC5. communicate maintenance and repair schedule proactively to the superior		2.0	0.5	1.5
colleagues and/or	PC6. receive feedback on work standards		1.0	0.0	1.0
customers	PC7. document the completed work schedule and handover to the superior		2.0	0.5	1.5
	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		1.0	0.25	0.75







Qualifications Fack For Extrasio		Total		
Performance Criteria	Marks (250)	Out of	Theory	Skills Practical
conflicts with the colleagues and resolve				
PC13. pass on essential information to		1.0	0.0	1.0
other colleagues on timely basis		1.0	0.0	1.0
PC14. maintain the etiquette, use polite				
language, demonstrate responsible and		2.0	0.5	1.5
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		1.0	0.25	0.75
team and understand the nature of their				
work				
PC16. put team over individual goals and				
multi task or share work where necessary		2.0	0.0	2.0
supporting the colleagues				
PC17. highlight any errors of colleagues,		1.0	0.25	0.75
help to rectify and ensure quality output				
PC18. work with cooperation, coordination,				
communication and collaboration, with		1.0	0.0	1.0
shared goals and supporting each other's				
performance				
PC19. ask more questions to the customers		1.0	0.25	0.75
and identify their needs				
PC20. possess strong knowledge on the		2.0	0.5	1.5
product, services and market				
PC21. brief the customers clearly on		1.0	0.25	0.75
potential costs and hazards 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		0.5	0.25	0.25
PC24. ensure the appropriate language and				
tone are used with customers		1.0	0.25	0.75
PC25. listen actively and have a two way				
communication		1.0	0.25	0.75
PC26. be sensitive to the gender, cultural	1			
and social differences such as modes of		1.0	0.25	0.75
greeting, formality, etc.			3.23	0.75
PC27. understand the customer	-			
expectations correctly and provide the		2.0	0.5	1.5
appropriate products and services				
PC28. understand the customer				
dissatisfaction and address or escalate their		2.0	0.5	1.5
complaints effectively				
PC29. maintain a positive, sensible and]	4.0	0.35	0.75
cooperative manner all time		1.0	0.25	0.75
PC30. ensure to maintain a proper body				
language, dress code, gestures and		1.0	0.25	0.75
etiquettes towards the customers				
PC31. avoid interrupting the customers		1.0	0.0	1.0
while they talk		1.0	0.0	1.0





1	Performance Criteria	Total Marks (250)	Out of	Theory	Skills Practical
	PC32. ensure to avoid negative questions and statements to the customers		1.0	0.0	1.0
	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			!	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	50	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
PCS/N9902	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
Maintain standards of product/ service quality	PC6. receive updates on regular feedbacks from the clients on current service, complaints, and improvements to be made, etc.		2.0	0.5	1.5
,	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





Performance Criteria	Total Marks (250)	Out of	Theory	Skills Practical	
PC12. focus on executing company's marketing strategies and product development needs		3.0	1.0	2.0	
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	50	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 norms	PC5. take preventive measures to avoid risk of burns and other injury due to contact with hot surfaces, gas, fire, hot fluids/ liquids, etc.		1.5	0.4	1.1
	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		1.0	0.4	0.6





Performance Criteria	Total Marks (250)	Out of	Theory	Skills Practical
paint vapours				
PC9. avoid dumping unused cans to safeguard the environment		1.0	0.0	1.0
PC10. be aware of the locations of fire extinguishers, emergency exits, etc.		1.0	0.4	0.6
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







Performance Criteria	Total Marks (250)	Out of	Theory	Skills Practical
PC28. follow company policies and rules regarding use of hazardous materials to avoid health, safety and environmental impacts caused by them		1.0	0.4	0.6
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
GRAND TOTAL	250			