





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

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Introduction

Qualifications Pack - Machine Operator Assistant – Plastics Extrusion

SECTOR: RUBBER

SUB SECTOR: MANUFACTURING/ PLASTICS PROCESSING

OCCUPATION: PLASTICS EXTRUSION

REFERENCE ID: RSC/Q4601 (CPC/Q0303)

ALIGNED TO:

Brief Job Description:

The Individual is responsible to assist the Machine Operator during the Extrusion process and operate Scrap Grinders, Blenders, High Speed Mixers, Agglomerators independently.

Personal Attributes:

This job requires the individual to work as an assistant to the operator and work independently under supervision of that operator. He must have excellent skills and result oriented and positive in attitude. The individual must be attentive and focused in attaining the set objectives. He must be a good learner to understand machines and materials at the level of production he is engaged in.







Qualifications Pack Code	RSC/Q4601 (CPC/Q0303)		
Job Role	Machine Operator Assistant - Plastics Extrusion		
Credits (NSQF)	24	Version number	1.0
Sector	Rubber	Drafted on	18/05/2016
Sub Sector	Manufacturing / Plastics Processing	Last reviewed on	26/12/2016
Occupation	Plastics Extrusion	Next review date	31/12/2021
NSQC Clearance on	21/07/2016		

Job Role	Machine Operator Assistant- Plastics Extrusion		
Role Description	This role is involved in assisting the operator and the entire team in peripheral activities/ non core activities in the production process.		
NSQF level Minimum Educational Qualifications* Maximum Educational Qualifications*	3 VIII th Standard		
Training (Suggested but not mandatory)	No previous training required		
Minimum Job Entry Age	18		
Experience	No previous experience required		
Applicable National Occupational Standards (NOS)	Compulsory: 1. RSC/N4601 (CPC/N0311): Basics Plastics Raw Materials, Additives, Master batches, pigments & Extrusion Concept 2. RSC/N4101 (CPC/N0411): Maintain basic health and safety practices at the workplace, 5S. 3. RSC/N4602 (CPC/N0313): Plastics Compounding / Mixing, Scrap Grinding, Agglomerating 4. RSC/N4603 (CPC/N0314): HDPE /PVC Pipe Extruder & Film Extruder Machine Operation 5. RSC/N4604 (CPC/N0315): Reporting & Documentation 6. RSC/N4605 (CPC/N0316): To Carry Out Quality Checks		
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 world environment. In the context of the OS, these include communication related skills that are applicable to most job roles.			
Description	Description gives a short summary of the unit content. This would be helpful to anyone searching on a database to verify that this is the appropriate OS they are looking for.			
Function	Function is an activity necessary for achieving the key purpose of the sector, occupation, or area of work, which can be carried out by a person or a group of persons. Functions are identified through functional analysis and form the basis of OS.			
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.			
Occupational Standards (OS)	OS 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.			
Organizational Context	Organizational 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.			







Unit Code	Unit Code is a unique identifier for a OS unit, which can be denoted with an 'N'
Unit Title	Unit Title gives a clear overall statement about what the incumbent should be able to do.
Vertical	Vertical may exist within a sub-sector representing different domain areas or the client industries served by the industry.

Keywords /Terms	Description
OS	Occupational Standard(s)
NVEQF	National Vocational Education Qualifications Framework
NVQF	National Vocational Qualifications Framework
NSQF	National Skills Qualifications Framework
OEM	Original Equipment Manufacturer
OS	Occupational Standard(s)
QP	Qualifications Pack









National Occupational



Overview

This unit is about Basics Plastics Raw Materials, Additives, Master batches, pigments & Extrusion Concept with emphasizing on Poly Olefins and PVC & Plastics Extrusion Concept.









Unit Code RSC/N4601 (CPC /N0311)				
Unit Title	Basics Plastics Raw Materials & Additives, Master batches, Pigments & Extrusion			
(Task)	Concept			
Description	This OS unit is about providing a basic knowledge of Plastics Raw Materials Used in			
_	Extrusion Process and The Extrusion Process.			
Scope	This unit/task covers the following:			
	Study about Polymers , Plastics , Additives , Master batches & pigments used in			
	the process			
	Types of Extrusion Items ProduceExtrusion Process			
Performance Criteria (
Element	Performance Criteria			
Raw Materials	To be competent, the user/individual on the job must be able to:			
	PC1 Study the types of Plastics used in Extrusion and Its Properties			
	PC2 Study the types of Additives , Master batches and Pigments			
	PC3 Store and Handling of Raw Materials & House Keeping			
Extrusion Process	PC4 Learn the types of Extruders Used in the Extrusion Process and their Parts			
	PC5 Store and Handling of Finished Products & House Keeping.			
Compounding and	PC6 Ensure the types of Mixing and Compounding			
Mixing	PC7 Ensure measurement of Additives, Pigments and Materials.			
Scrap Grinding &	PC8 Study and Operation of Scrap Grinding Machines , Blenders & Agglomerator			
Agglomerator				
Health & Safety	PC9 Study about Safety Equipments and Its Use.			
	PC10 Follow the Do's and Don'ts in Area of Operation			
	PC11 Follow the Safety Precaution before Majors Operations.			
Knowledge and Under	standing (K)			
A. Organizational	The user/individual on the job needs to know and understand:			
Context	KA1. The Organization Chart, Relevant legislation, standards, policies, procedures &			
(Knowledge of the	Code of Conduct followed in the company			
company /	KA2. Different Types of Products Manufactured by the Company			
organization and	KA3. Quality Check and Grading and Segregation of non conforming Products			
its processes)	KA4. Risk and impact of not following defined procedures/work instructions			
its processes;	KA5. Types of documentation in organization and importance of the same			
	KA6. Records to be maintained and implications of non-maintenance of the same			
	KA7. The Importance of housekeeping & good shop floor practices (e.g. 3S & 5S)			
	KA8. Health, Safety and Environment guidelines			
	KA9. The Impact of poor practices on health, safety and environment			
	KA10. The Potential hazards and actions to minimize the same.			
	KA11. The Impact of various practices on cost, quality, productivity, delivery and			
	safety			









	KA12. Handover/ Takeover the equipment/ work area as per company's SOP
B. Technical Knowledge	The user/individual on the job needs to know and understand: KB1. The Emergency Stops Procedure for Compounding and Extruder Machine KB2. Cleanliness and safety requirements for commencing Compounding & Extruder KB3. Importance of RPM, Temperature and Pressure Parameters. KB4. Preparation of Formulations KB5. Raw Material Feeding Auto / Manual Process, KB6. Health hazards of process and compounding ingredients KB7. Measurement techniques using gauges and balance (for thickness, width and weight) KB8. Response to emergencies e.g. Power failures, fire and system failures and manual intervention to avoid disaster
	KB9. Knowledge of appropriate batch size with respect to appropriate machinery
Skills (S) [Optional]	
A. Core Skills/ Generic Skills	The user/ individual on the job needs to know and understand how to: SA1. Fill up appropriate technical forms process charts, activity logs in required format of the company SA2. Perform functional mathematical operations, including apply basic mathematical principles, such as numbers and space, and techniques such as estimation and approximation, for practical purposes SA3. Enter into the history card details of the fault identified in the plastic product manufactured
	Reading Skills
	The user/individual on the job needs to know and understand how to: SA4. Read and understand manuals, Warning, health and safety instructions, Raw Material Labels, Components, memos, reports, job cards etc SA5. Read images, graphs, diagrams SA6. Understand the various coding systems as per company norms
Oral Communication (Listening and Speaking skills)	
	The user/individual on the job needs to know and understand how to: SA7. Express Opinions or Information clearly SA8. Discuss task lists, schedules, and work-loads with co-workers SA9. Communicate with Supervisors Job & Issue related tasks SA10. Communication between Upstream and Downstream teams SA11. Avoid using slang when communicating with a supervisor /fellow subordinates etc unless it is required SA12. Work in a team and other behavioral skills required to support the small









	Integrity		
	The user/individual on the job needs to know and understand how to:		
	SA13. Practice honesty with respect to company property and time		
	Motivation		
	The user/individual on the job needs to know and understand how to:		
	SA14. Take responsibility for completing one's own work assignment		
	SA15. Take initiative to enhance/learn skills in one's area of work		
	SA16. Learn from experience in a range of settings and scenarios and the capacity to reflect on and analyse one's learning.		
	SA17. Identify new ways of doing things		
	SA18. Envisage and articulate personal goals; to develop strategies and take action		
	to achieve them.		
	Reliability		
	The user/individual on the job needs to know and understand how to:		
	SA19. Avoid absenteeism		
	SA20. Act objectively, rather than impulsively or emotionally when faced with		
	difficult/stressful or emotional situations		
	SA21. Work in disciplined factory environment SA22. Be punctual		
B. Professional Skills	Decision Making		
b. Troicssional skins	The user/individual on the job needs to know and understand how to:		
	SB1. Make decisions pertaining to the concerned area of work		
	Material and Equipment Handling		
	The user/individual on the job needs to know and understand:		
	SB2. The Operation of different types of extruders		
	SB3. Handling of Plastics Raw Materials, Additives and Master Batches		
	SB4. Handling of various types of material handling equipment like forklifts, trolley		
	etc.		
	Problem Solving		
	The user/individual on the job needs to know and understand how to:		
	SB5. Think through the problem, evaluate the possible solution(s) and suggest		
	an optimum /best possible solution(s)		
	SB6. Use common sense and make judgments during day to day basis.		
	SB7. Use reasoning skills to identify and resolve basic problems.		
	SB8. Identify immediate or temporary solutions to resolve delays		
	Analytical Thinking		

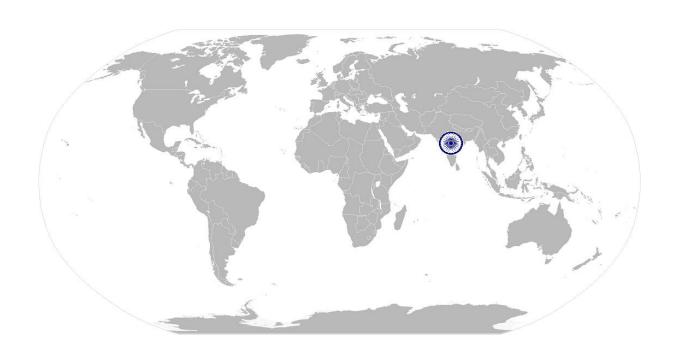








The user/individual on the job needs to know and understand how to:		
SB10.	Diagnose common problems in the machine based on visual inspection, sound	
	etc	
SB11.	Suggest improvements(if any) in process based on experience	











NOS Version Control

NOS Code	RSC/N4601 (CPC/N0311)	C/N4601 (CPC/N0311)		
Credits (NSQF)	3	Version number	1.0	
Sector	Rubber	Drafted on	18/05/2016	
Sub Sector	Manufacturing / Plastics Processing	Last reviewed on	26/12/2016	
Occupation	Plastics Extrusion	Next review date	31/12/2021	











National Occupational



Overview

This unit Covers health, safety and security at the work place. This includes procedures and practices that candidates need to follow to help maintain a healthy, safe and secure work environment.









Unit Code	RSC/N4101 (CPC/N 0411)
Unit Title	Maintain basic health and safety practices at the workplace, 5S
(Task)	ivialitatii basic neattii and safety practices at the workplace, 55
Description	This OS unit is about knowledge and practices relating to health, safety and security that candidates need to use in the workplace. It covers responsibilities towards self, others, assets and the environment. It includes understanding of risks & hazards in the workplace, along with common techniques to minimize risk, deal with accidents, emergencies etc. It covers knowledge of fire safety, common first aid applications and safe practice.
	This OS is about ensuring all 5S activities both at the shop floor and the office area to facilitate increase in work productivity.
Scono	The role holder will be responsible for
Scope	Health and safety procedure.
	Fire safety procedure.
	Emergencies, rescue and first aid procedures.
	 Ensure sorting, stream lining, storage and documentation, cleaning, standardization and sustenance across the plant premises of the organization.
Performance Criter	a (PC) w.r.t. the Scope
Element	Performance Criteria
Health and safety	The individual on the job should ensure to: PC1. Wear protective clothing/equipment for specific tasks and work conditions PC2. Carry out safe working practices while dealing with hazards to ensure the safety of Self and others. PC3. Ensure good housekeeping practices at all times
Fire safety	The individual on the job should be able to:
	PC4. Use the various appropriate fire extinguishers on different types of fires correctly PC5. Demonstrate rescue techniques applied during fire hazard, demonstrate good housekeeping in order to prevent fire hazards, demonstrate the correct use of a fire extinguisher.
Emergencies, rescue and first aid procedures.	PC6. Identify activities which can cause potential injury through sharp objects, burns, fall, electricity, gas leakages, radiation, poisonous fumes, chemicals, loud noise, and Identify areas in the plant which are potentially hazardous / unhygienic in nature. Conduct regular checks with support of the maintenance team on machine health to identify potential hazards due to wear and tear of machine. PC7. Inform the concerned authorities on the potential risks identified in the processes, workplace area/ layout, materials used etc, Inform the concerned authorities about machine breakdowns, damages which can potentially harm man/ machine during operations. PC8. Create awareness amongst others by sharing information on the identified
	risks.









Ensure sorting, stream lining, storage and documentation, cleaning, standardization and sustenance across the plant premises of the organization.	PC9. Follow the sorting process and check that the tools, fixtures & jigs that are lying on workstations are the ones in use and un-necessary items are not cluttering the workbenches or work surfaces. PC10. Ensure segregation of waste in hazardous/ non Hazardous waste as per the sorting work instructions PC11. Follow the technique of waste disposal and waste storage in the proper bins as per SOP PC12. Segregate the items which are labeled as red tag items for the process area and keep them in the correct places PC13. Sort the tools/ equipment/ fasteners/ spare parts as per specifications/ utility into proper trays, cabinets, lockers as mentioned in the 5S guidelines/ work instructions PC14. Ensure that areas of material storage are not overflowing PC15. Ensure properly stack the various types of boxes and containers as per the size/ utility to avoid any fall of items/ breakage and also enable easy sorting when required PC16. Return of extra material and tools to the designated sections and make sure that no additional material/ tool is lying near the work area PC17. Follow the floor markings/ are markings used for demarcating the various sections in the plant as per the prescribed instructions and standards PC18. Follow the proper labelling mechanism of instruments/ boxes/ containers and maintaining reference files/ documents with the codes and the lists PC19. Ensure to check the items in the respective areas have been identified as broken or damaged PC20. Follow the given instructions and check for labelling of fluids, oils, lubricants, solvents, chemicals etc. and proper storage of the same to avoid spillage, leakage, fire etc. PC21. To make sure that all material and tools are stored in the designated places and in the manner indicated in the 5S instructions
Knowledge and Unders	tanding (K)
B. Organizational Context (Knowledge of the company / organization and its processes)	The user/individual on the job needs to know and understand: KA1. The relevant standards, procedures and policies related to Health, Safety and Environment followed in the company KA2. The emergency handling procedures & hierarchy for escalation
B. Technical Knowledge	The user/individual on the job needs to know and understand: KB1. The basic knowledge of Safety procedures (fire fighting, first aid) within the organization KB2. The basic knowledge of various types of PPEs and their usage









N3C/1V4101	(CPC/NO411) Maintain basic health & Sajety Practices at the Workplace, 55
	KB3. The basic knowledge of risks/hazards associated with each occupation in the organization
	KB4. The knowledge of personal hygiene and how an individual contribute towards creating a highly safe and clean working environment the individual on the job needs to know and understand.
	KB5. The meaning of "hazards" and "risks"
	KB6 The health and safety hazards commonly present in the work environment and related precautions
	KB7. The possible causes of risk, hazard or accident in the workplace and why risk and/or accidents are possible
	KB8. The Possible causes of risk and accident (due to oil leakage)
	KB9. Methods of accident prevention
	KB9. Safe working practices when working with tools and machines
	KB10. Safe working practices while working at various hazardous sites
	KB11. To know the where to find all the general health and safety equipment in the
	workplace
	KB12. Various dangers associated with the use of electrical equipment
	KB13. Preventative and remedial actions to be taken in the case of exposure to toxic materials
	KB14. The Importance of using protective othing/equipment while working
	KB15. Precautionary activities to prevent the fire accident
	KB16. Various causes of fire
	KB17. To know the techniques of using the different fire extinguishers
	KB18. To know the different methods of extinguishing fire
	KB19. To know the different materials used for extinguishing fire
	KB20. Rescue techniques applied during a fire hazard
	KB21. Various types of safety signs and what they mean
	KB22. To know the appropriate basic first aid treatment relevant to the condition
	e.g. shock, electrical shock, bleeding, breaks to bones, minor burns,
	resuscitation, poisoning, eye injuries
	KB23. To know the content of written accident report
	KB24. Potential injuries and ill health associated with incorrect manual handing
	KB25. Safe lifting and carrying practices
	KB26. Personal safety, health and dignity issues relating to the movement of a person by others
	KB27. Potential impact to a person who is moved incorrectly
	KB28. To have basic knowledge of 5S procedures
	KB29. To know the various types 5s practices followed in various areas
	KB30. Understand to the 5S checklists provided in the department/ team
	KB31. To have skills to identify useful & non useful items
	KB32. To have knowledge of labels , signs & colours used as indicators
	KB33. To have knowledge on how to sort and store various types of tools, equipment, material etc.
	KB34. To know , how to identify various types of waste products
	100 ii 10 kilow , now to identity various types of waste products

KB35. Understand to the impact of waste/ dirt/ dust/unwanted substances on the









		process/ environment/ machinery/ human body.				
		KB36. To have knowledge of best ways of cleaning & waste disposal				
Skills (S)	[Optional]					
Eleme	nt	Skills				
C. Core	e Skills/	Writing Skills				
Gen	eric Skills	The user/ individual on the job needs to know and understand how to: SA1. Understand basic level notes and observations.				
		Reading Skills				
		The user/individual on the job needs to know and understand about the: SA2. safety instructions put up across the plant premises SA3. Safety precautions mentioned in equipment manuals and panels and understand the potential risks associated Oral Communication (Listening and Speaking skills) The user/individual on the job needs to know and understand how to:				
		SA4. Effectively communicate information to team members SA5. Inform employees in the plant and concerned functions about events, Incidents & potential risks observed related to Safety, Health and Environment. SA6. Question operator/ supervisor in order to understand the safety related issues SA7. Attentively listen with full attention and comprehend the information given by the speaker during safety drills and training programs				
D. Prof	essional Skills	Plan and Organize				
		The user/individual on the job needs to know and understand how to: SB1. Process the work order and jobs received from the internal customers. SB2. Design documents received from internal customers SB3. Understand & organize all process/ equipment manuals so that sorting out information is fast.				
		Judgment and Critical Thinking				
		The user/individual on the job needs to know and understand how to: SB4. Use common sense and make judgments during day to day basis SB5. Use intuition to detect any potential problems which could arise during operations				
		Desire to learn and take initiatives 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: SB6. Follow instructions and work on areas of improvement identified SB7. Complete the assigned tasks with minimum supervision SB8. Complete the job defined by the supervisor within the timelines and quality norms				









NOS Version Control

NOS Code	RSC/N4101 (CPC/N0411)		
Credits (NSQF)	3	Version number	1.0
Sector	Rubber	Drafted on	18/05/2016
Sub Sector	Manufacturing / Plastics Processing	Last reviewed on	26/12/2016
Occupation	Plastics Extrusion	Next review date	31/12/2021



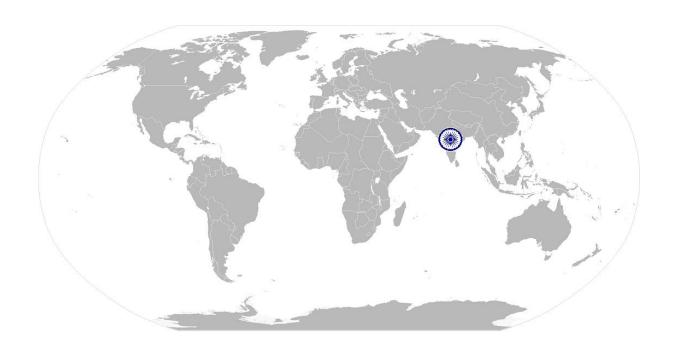








National Occupational Standards



Overview

This unit is about Plastics Compounding and Mixing, Scrap Grinding & Agglomerating.









Unit Code	RSC/N4602 (CPC / N0313)					
Unit Title (Task)	Deal With Plastics Compounding / Mixing, Scrap Grinding, Agglomerating					
Description	This OS unit is about providing knowledge of Plastics Compounding and Mixing					
Scope	This unit/task covers the following:					
	Understanding Chemicals, Additives and Colorants					
	Types of Blenders and Mixers					
	Parameters Involved in High Speed Mixing and Blending					
	 Study & Operation of Scrap Grinding & Agglomerating 					
	Health and Safety					
Performance Criteria (I	PC) w.r.t. the Scope					
Element	Performance Criteria					
Understanding	To be competent, the user/individual on the job must be able to:					
Chemicals, Additives	PC1 Study the types of Chemicals, Additives and Colorants.					
and Colorants	PC2 Laid down Formulation for different Products.					
	PC3 - Do weighing and Batch Size					
Types of Blenders	PC4 Study the types of Blenders , Mixers and their Parts					
and Mixers	PC5 Prepare Batches as per the formulations					
	PC6 Do loading and unloading of Batches.					
Parameters Involved	PC7 Ensure the Temperature, Pressure and Speed involved in Blenders and Mixers.					
in High Speed Mixing	PC8 Ensure the importance of each and every Parameters. PC9 Precaution to be taken care during the batch preparation.					
and Blending	PC10 Storing of batches after preparation.					
Types of Scrap	PC11 Study the types of Scrap Grinders and Agglomerator and their parts					
Grinders &	PC12 Study the operation & Trouble Shooting					
Agglomerators	PC13 Ensure that storing, House Keeping, Safety while operation					
Health & Safety	PC14 Study about safety equipments and Its use.					
rieditii & Salety	PC15 Follow the Do's and Don'ts in area of operation					
	PC16 Follow the safety precaution before majors operations.					
Knowledge and Unders						
A. Organizational	The user/individual on the job needs to know and understand:					
Context	KA1. Different Types of formulation vis-a-vis Products Manufactured by the					
(Knowledge of the	Company					
company /	KA2. Quality Check and Grading and Segregation of non conforming Batches					
organization and	KA3. Risk and impact of not following defined procedures/work instructions					
its processes)	KA4. Types of documentation in organization and importance of the same					
its processes)	KA5. Records to be maintained and implications of non-maintenance of the same					
	KA6. Importance of housekeeping & good shop floor practices (e.g. 3S & 5S)					
	KA7. Health, Safety and Environment guidelines					
	KA8. The impact of poor practices on health, safety and environment					
	KA9. Potential hazards and actions to minimize the same.					
	KA10. The impact of various practices on cost, quality, productivity, delivery and					









	safety				
	KA11. Handover/ Takeover the equipment/ work area as per company's SOP				
B. Technical	The user/individual on the job needs to know and understand:				
Knowledge	KB1. The Emergency Stops Procedure for Mixing and Blending Machines.				
Kilowieuge	KB2. Machine Cleanliness and safety requirements for commencing Compounding				
	Mixing & Blender.				
	KB3. Importance of RPM, Temperature and Pressure Parameters.				
	KB4. Importance of Formulations vis-a-vis Items produced.				
	KB5. Health hazards of process and compounding ingredients				
	KB6. Measurement techniques using gauges and balance.				
	KB7. Response to emergencies e.g. Power failures, fire and system failures and				
	manual intervention to avoid disaster				
	KB8. Knowledge of appropriate batch size with respect to appropriate machinery				
Skills (s) [optional]	RBO. Knowledge of appropriate batch size with respect to appropriate machinery				
A. Core Skills/	Writing Skills				
Generic Skills	The user/ individual on the job needs to know and understand how to:				
	SA1. Fill up appropriate technical forms, process charts, activity logs in required				
	format of the company				
	SA2. Enter into the history card details of the fault identified in the plastic product				
	manufactured Reading Skills				
	The user/individual on the job needs to know and understand how to:				
	SA3. Read and understand manuals, Warning, health and safety instructions, Raw				
	Material Labels, Components, memos, reports, job cards etc				
	SA4. Read images, graphs, diagrams				
	SA5. Understand the various coding systems as per company norms				
	Oral Communication (Listening and Speaking skills)				
	The user/individual on the job needs to know and understand how to:				
	SA6. Express Opinions or Information clearly				
	SA7. Discuss task lists, schedules, and work-loads with co-workers				
	SA8. Communicate with Supervisors Job & Issue related tasks				
	SA9. Communicate between Upstream and Downstream teams				
	SA10. Avoid using jargon, slang or acronyms when communicating with a				
	supervisor /fellow subordinates etc unless it is required				
	SA11. Work in a team and other behavioral skills required to support the small				
	group activities (Quality Circle, Cross Functional Team, Suggestion Scheme) Integrity				
	The user/individual on the job needs to know and understand how to: SA12. Practice honesty with respect to company property and time				
	Motivation				
	The user/individual on the job needs to know and understand how to:				
	SA13. Take responsibility for completing one's own work assignment				









	SA14. Take initiative to enhance/learn skills in one's area of work			
	SA15. Learn from experience in a range of settings and scenarios and the capacity to			
	reflect on and analyse one's learning.			
	SA16. Identify new ways of doing things			
	SA17. Envisage and articulate personal goals; to develop strategies and take action			
	to achieve them.			
	Reliability			
	The user/individual on the job needs to know and understand how to:			
	SA18. Avoid absenteeism			
	SA19. Act objectively , rather than impulsively or emotionally when faced with			
	difficult/stressful or emotional situations			
	SA20. Work in disciplined factory environment			
	SA21. Be punctual			
E. Professional Skills	Decision Making			
	The user/individual on the job needs to know and understand how to:			
	SB1. Make decisions pertaining to the concerned area of work			
	Material and Equipment Handling			
	The user/individual on the job needs to know and understand:			
	SB2. Operate different types of Blenders and Mixers, Scrap Grinder &			
	Agglomerator.			
	SB3. Handling of Plastics Additives, Colorants and Master Batches			
	SB4. Handling of various types of material handling equipment like forklifts, trolley			
	etc			
	Problem Solving			
	The user/individual on the job needs to know and understand how to:			
	SB5. Think through the problem, evaluate the possible solution(s) and suggest			
	an optimum /best possible solution(s)			
	SB6. Use common sense and make judgments during day to day basis.			
	SB7. Use reasoning skills to identify and resolve basic problems.			
	SB8. Identify immediate or temporary solutions to resolve delays			
	Analytical Thinking			
	The user/individual on the job needs to know and understand how to:			
	SB9. Diagnose common problems in the machine based on visual inspection, sound			
	etc			
	SB10. Suggest improvements(if any) in process based on experience			









NOS Version Control

NOS Code	RSC/N4602 (CPC/N0313)		
Credits (NSQF)	7.5	Version number	1.0
Sector	Rubber	Drafted on	18/05/2016
Sub Sector	Manufacturing / Plastics Processing	Last reviewed on	26/12/2016
Occupation	Plastics Extrusion	Next review date	31/12/2021











National Occupational



Overview

This unit is about HDPE /PVC Pipe Extruder & Film Extruder Machine Operation.









Unit Code	RSC/N4603 (CPC /N0314)			
Unit Title				
(Task)	Deal With HDPE / PVC Pipe Extruder & Film Extruder Machine Operation.			
Description	This OS unit is about knowledge of HDPE /PVC Pipe Extruder & Film Extruder Machine			
	Operation.			
Scope	This unit/task covers the following:			
	HDPE / PVC Pipe Extruders and their parts			
	Film Extruders & their Parts			
	Extrusion Process and Parameters.			
	Material Loading & Handling.			
	Finished Items Segregating & Storing.			
D. C	Health and Safety			
Performance Criteria (I				
Element	Performance Criteria			
Extruders and their	To be competent, the user/individual on the job must be able to: PC1 Study the types of HDPE / PVC Extruders & their Parts.			
parts	PC2 Study the types of Film Extruders & their Parts			
parts	PC3 Study about start up & Shutting down Process.			
	PC4 Do threading (Initial Take up) of Pipes Films			
	PC5 Follow the safety Precaution to be taken during assembling and			
	disassembling.			
Material Loading &	PC6 Ensure material Loading and Handling.			
Handling	PC7 Handle the Finished Products Segregation & Stacking			
	PC8 Ensure Post Production Operation			
Health & Safety	PC9 Follow the safety equipments and Its Use.			
	PC10 Follow Do's and Don'ts in area of operation			
	PC11 Follow the safety precaution before major operations.			
Knowledge and Unders				
A. Organizational	The user/individual on the job needs to know and understand:			
Context	KA1. The Organization Chart, Relevant legislation, standards, policies, procedures & Code of Conduct followed in the company			
(Knowledge of the	KA2. Different Types of Products Manufactured by the Company			
company /	KA3. Quality Check and Grading and Segregation of non conforming Products			
organization and	KA4. Risk and impact of not following defined procedures/work instructions			
its processes)	KA5. Types of documentation in organization and importance of the same			
	KA6. Records to be maintained and implications of non-maintenance of the same			
	KA7. The importance of housekeeping & good shop floor practices (e.g. 3S & 5S)			
	KA8. Health, Safety and Environment guidelines			
	KA9. The impact of poor practices on health, safety and environment			
	KA10. Potential hazards and actions to minimize the same.			
	KA11. The impact of various practices on cost, quality, productivity, delivery and			
	safety Handover/ Takeover the equipment/ work area as per company's SOP			
B. Technical	The user/individual on the job needs to know and understand:			
Knowledge	KB1. Emergency Stops Procedure for Extruder Machines			









	KB2. Cleanliness and safety requirements before and after operation.					
	KB3. Process Parameters and its control.					
	KB4. Common Faults and Trouble shooting.					
	KB5. Health hazards of process and safety precautions.					
	KB6. Measurement techniques using gauges and balance (for thickness, width and					
	weight)					
	KB7. Response to emergencies e.g. Power failures, fire and system failures and					
	manual intervention to avoid disaster					
Chille (C) [Ontional]	KB8. Knowledge of appropriate batch size with respect to appropriate machinery					
Skills (S) [Optional] A. Core Skills/	Writing Skills					
_	·					
Generic Skills	The user/ individual on the job needs to know and understand how to:					
	SA1. Fill up appropriate technical forms, process charts, activity logs in required					
	format of the company					
	SA2. Enter into the history card details of the fault identified in the plastic product					
	manufactured					
	Reading Skills					
	The user/individual on the job needs to know and understand how to:					
	SA3. Read and understand manuals, Warning, health and safety instructions, Raw					
	Material Labels, Components, memos eports, job cards etc					
	SA4. Read images, graphs, diagrams					
	SA5. Understand the various coding systems as per company norms Oral Communication (Listening and Speaking skills)					
	The user/individual on the job needs to know and understand how to:					
	SA6. Express Opinions or Information clearly					
	SA7. Discuss task lists, schedules, and work-loads with co-workers					
	SA8. Communicate with Supervisors Job & Issue related tasks					
	SA9. Communicate between Upstream and Downstream teams					
	SA10. Avoid using jargon, slang or acronyms when communicating with a					
	supervisor /fellow subordinates etc unless it is required					
	SA11. Work in a team and other behavioral skills required to support the small					
	group activities (Quality Circle, Cross Functional Team, Suggestion Scheme)					
	Integrity					
	The user/individual on the job needs to know and understand how to:					
	SA12. Practice honesty with respect to company property and time					
	Motivation					
	Wiotivation					
	The user/individual on the job needs to know and understand how to:					
	SA13. Take responsibility for completing one's own work assignment					
	SA14. Take initiative to enhance/learn skills in one's area of work					
	SA15. Learn from experience in a range of settings and scenarios and the capacity to					
	reflect on and analyse one's learning.					
	SA16. Identify new ways of doing things					
	SA17. Envisage and articulate personal goals; to develop strategies and take action					









	to achieve them.			
	Reliability			
	The user/individual on the job needs to know and understand how to:			
	SA18. Avoid absenteeism			
	SA19. Act objectively , rather than impulsively or emotionally when faced with			
	difficult/stressful or emotional situations			
	SA20. Work in disciplined factory environment			
	SA21. Be punctual			
F. Professional Skills	Decision Making			
	The user/individual on the job needs to know and understand how to:			
	SB1. Make decisions pertaining to the concerned area of work			
	Material and Equipment Handling			
	The user/individual on the job needs to know and understand:			
	SB2. The operation of different types of extruders			
	SB3. Handling of Plastics Raw Materials, Additives and Master Batches			
	SB4. Handling of various types of material handling equipment like forklifts, trolley			
	etc			
	Problem Solving			
	The user/individual on the job needs to know and understand how to:			
	SB5. Think through the problem, evaluate the possible solution(s) and suggest			
	an optimum /best possible solution(s)			
	SB6. Use common sense and make judgments during day to day basis.			
	SB7. Use reasoning skills to identify and resolve basic problems.			
	SB8. Identify immediate or temporary solutions to resolve delays			
	Analytical Thinking			
	The user/individual on the job needs to know and understand how to:			
	SB9. Diagnose common problems in the machine based on visual inspection, sound			
	etc			
	SB10. Suggest improvements(if any) in process based on experience			









NOS Version Control

NOS Code	RSC/N4603 (CPC/N0314)		
Credits (NSQF)	4.5	Version number	1.0
Sector	Rubber	Drafted on	18/05/2016
Sub Sector	Manufacturing / Plastics Processing	Last reviewed on	26/12/2016
Occupation	Plastics Extrusion	Next review date	31/12/2021



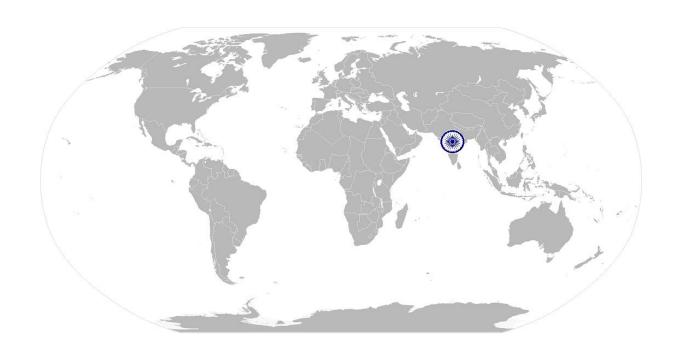








National Occupational Standards



Overview

This unit is about reporting and documentation









Unit Code	RSC/N4604 (CPC / N0315)
Unit Title	To carry out reporting and documentation
(Task)	To carry out reporting and documentation
Description	This unit is about carrying out reporting and documentation
Scope	This unit/task covers the following:
	Reporting of data/problem/incidents etc
	Documentation
	Information Security
Performance Criteria (I	·
Element	Performance Criteria
	To be competent, the user/individual on the job must be able to:
	PC1 Report data/problems/incidents as per the laid down procedure in the
Reporting	prescribed format and registers.
	PC2 Report to the appropriate authority as laid down by the company procedure.
	PC3 Identify documentation to be completed relating to the job profile.
Recording and	PC4 Record details accurately in an appropriate format.
Documentation	PC5 Complete all documentation within stipulated time according to company
	procedure.
	PC6 Make sure documents are available to all appropriate authorities to inspect.
Information Country	PC7 Respond to requests for information in an appropriate manner whilst
Information Security	following organizational procedures.
Knowledge and Unders	PC8 Inform the appropriate authority of requests for information received.
Knowledge and Onders	The user/individual on the job needs to know and understand:
	KB1. Different methods of recording information.
	KB2. Various documents that need to be maintained.
	KB3. The company procedure for filling/maintaining up the documents.
	KB4. Procedures for reporting to the appropriate authority.
D. T. de de d	KB5. Procedures for recording damage, breakages etc.
B. Technical	KB6. The importance of accurate documentation completion within a prescribed
Knowledge	timeframe.
	KB7. Actions to be taken if the documents are not correct.
	KB8. The importance of maintaining the security and confidentiality of recorded
	information.
	KB9. Procedures to maintain confidentiality of information
	KB10.Appropriate method for responding to requests for information
Skills (S)	
	Writing Skills
	The user/ individual on the job needs to know and understand how to:
A. Core Skills/	SA1. Construct simple sentences and express ideas clearly through written
Generic Skills	communication
	SA2. Fill up appropriate technical forms, process charts, activity logs in required
	format of the company









	Reading Skills
	The user/individual on the job needs to know and understand how to:
	SA3. Rread and understand manuals, health and safety instructions, memos,
	documents, reports, job cards etc
	SA4. Read images, graphs, diagrams etc
	SA5. Understand the various coding systems as per company norms
	Oral Communication (Listening and Speaking skills)
	The user/individual on the job needs to know and understand how to:
	SA6. Express statements, opinions or information clearly so that others can hear
	and understand
	SA7. Respond appropriately to any queries
	SA8. Communicate with supervisor, upstream and downstream teams
	SA9. Work in a team and other behavioral skills required to support the small group
	activities (Quality Circle, Cross Functional Team, Suggestion Scheme)
	Integrity
	integrity
	The user/individual on the job needs to know and understand how to:
	SA10. Practice honesty with respect to company property and time
	SA11. Communicate with people in a form and manner and using language that is
	open and respectful
	SA12. Resolve any difficulties in relationships with colleagues, or get help from an
	appropriate person, in a way that preserves goodwill and trust
	Motivation
	The user/individual on the job needs to know and understand how to:
	SA13. Take responsibility for completing one's own risk assignment
	SA14. Take initiative to enhance/learn skills in one's area of work
	SA15. Learn from experience in a range of settings and scenarios and the capacity
	to reflect on and analyse one's learning.
	SA16. Identify new ways of doing things
	SA17. Envisage and articulate personal goals; to develop strategies and take
	action to achieve them.
	Reliability
	The user/individual on the job needs to know and understand how to:
	SA18. Avoid absenteeism
	SA19. Act objectively , rather than impulsively or emotionally when faced with
	difficult/stressful or emotional situations
	SA20. Work in disciplined factory environment
	SA21. Be punctual
	Decision Making
B. Professional Skills	The user/individual on the job needs to know and understand how to:
D. PIUIESSIUIIdi SKIIIS	The Operation of different types of extruders
	Handling of rubber compound & chemicals
	Handling of various types of material handling equipment like forklifts, trolley The









capacity to apply technology, combining the physical and sensory skills needed to operate equipment with the understanding of scientific and technological Principles needed to explore and adapt systems.

Plan and Organize

The user/individual on the job needs to know and understand how to:

- SB2. Seek clarification on problems from others
- SB3. Apply problem-solving approaches in different situations
- SB4. Refer anomalies to the line manager

Customer Centricity

NA

Problem Solving

The user/individual on the job needs to know and understand how to:

- SB5. Interpret quality for sheet
- SB6. Suggest improvements(if any) in process/product/materials based on results and experience

The user/individual on the job needs to know and understand how to:

- SB7. Proper collection of waste material
- SB8. Identify defects in the material and communicate it at the earliest and suggest improvements(if any) in process/material based on experience
- SB9. Diagnose common problems in the machine based on visual inspection, sound , temperature etc
- SB10.Suggest improvements(if any) in process based on experience

Critical Thinking

The user/individual on the job needs to know and understand how to:

- SB11. Handle equipment/rubber sheet SB6. seek clarification on problems from others
- SB12. Apply problem-solving approaches in different situations
- SB13. Refer anomalies to the line manager



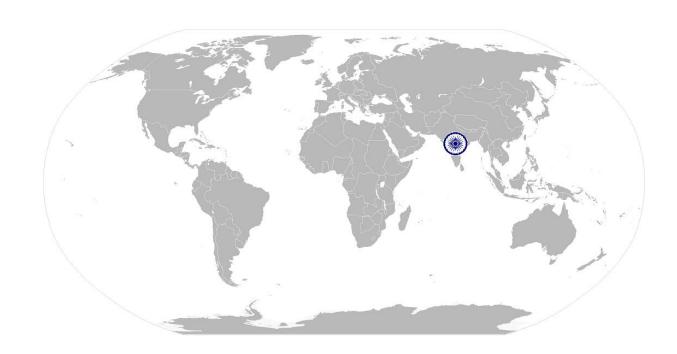






NOS Version Control

NOS Code	RSC/N4604 (CPC/N0315)			
Credits (NSQF)	Version number 1.0			
Sector	Rubber	Drafted on	18/05/2016	
Sub Sector	Manufacturing / Plastics Processing	Last reviewed on	26/12/2016	
Occupation	Plastics Extrusion	Next review date	31/12/2021	











National Occupational Standards



Overview

This unit is about carrying out quality checks.









Unit Code	RSC/N4605 (CPC / N0316)
Unit Title	To carry out quality checks
(Task)	To carry out quarty cricers
Description	This unit is about carrying out quality control activities
Scope	This unit/task covers the following:
	Inspection: Carrying out quality checks to identify problems
	Analysis: Take corrective actions
	Reporting the results
Performance Criteria	a (PC) w.r.t. the Scope
Element	Performance Criteria
	To be competent, the user/individual on the job must be able to:
	PC1 Ensure that total range of checks as per the prescribed national and
Inconcetion	International standards on regular intervals throughout the shifts.
Inspection	PC2 Use appropriate measuring instruments, equipment, tools, accessories
	etc, as prescribed / required
	PC3 Identify non-conformities to quality assurance standards.
	PC4 Identify potential causes of non-conformities to quality assurance
	standards
Analysis	PC5 Identify impact on final product due to non-conformance to prescribed
Analysis	Standards.
	PC6 Evaluate the need for action to ensure that problems do not reoccur.
	PC7 Suggest corrective action to address problem.
	PC8 Review effectiveness of corrective action.
	PC9 Interpret the results of the quality check correct
	PC10 Take up results of the findings with QC in charge/appropriate
	authority.
	PC11 Take up the results of the findings within stipulated time
Reporting	PC12 Rrecord of results of action taken.
reporting	PC13 Record adjustments not covered by established procedures for future
	reference.
	PC14 Review effectiveness of action taken.
	PC15 Follow reporting procedures where the cause of defect cannot be
	identified.
Knowledge and Und	
B. Technical	The user/individual on the job needs to know and understand:
Knowledge	KB1. The importance of quality control procedures with respect to national
	and international standards.
	KB2. Relevance and importance of activities and how they contribute to the
	achievement of the quality objectives,
	VP2 Proper precedure for colecting the material/and dust and newfare in
	KB3. Proper procedure for selecting the material/product and performing
	quality checks without affecting the material
	KB4. Availability of work instructions, as necessary,
	KB5. Characteristics of the product/material









	KB6. Use of suitable equipment.			
	KB7. Availability and use of monitoring and measuring devices,			
	KB8. The requirements of records.			
	KB9. The Importance of maintaining accurate up-to-date records.			
	KB10. Need to report within the stipulated time.			
	KB11. Implications of inaccurate measuring and testing instruments and			
	equipment.			
	KB12. The cost of non-conformance to quality standards.			
	KB13. Implications (impact on internal/external customers) of defective			
	products, materials or components			
Skills (S)	products, materials or components			
	Westing Chille			
A. Core Skills/	Writing Skills			
Generic Skills	The user/ individual on the job needs to know and understand how to:			
	SA1. Construct simple sentences and express ideas clearly through written			
	communication			
	SA2. Fill up appropriate technical forms, process charts, activity logs in			
	required format of the company			
	SA3. Write simple letters, mails, etc			
	SA4. Perform functional mathematical operations, including apply basic			
	mathematical principles, such as numbers and space, and techniques			
	such as estimation and approximation, for practical purposes			
	Reading Skills			
	The user/individual on the job needs to know and understand how to:			
	SA5. Read and understand manuals, health and safet instructions, memos,			
	reports, job cards etc			
	SA6. Read images, graphs, diagrams			
	SA7. Understand the various coding systems as per company norms			
	Oral Communication (Listening and Speaking skills)			
	The user/individual on the job needs to know and understand how to:			
	SA8. Express statements, opinions or information clearly so that others can			
	hear and understand			
	SA9. Respond appropriately to any queries			
	SA10. Communicate with supervisor			
	SA11. Communicate with upstream and downstream teams			
	SA12. Work in a team and other behavioral skills required to support the			
	small group activities (Quality Circle, Cross Functional Team,			
	Suggestion Scheme)			
	Integrity			
	The user/individual on the job needs to know and understand how to:			
	SA13. Practice honesty with respect to company property and time			
	SA14. Communicate with people in a form and manner and using language			
	that is open and respectful			
	SA15. Resolve any difficulties in relationships with colleagues , or get help			
	from an appropriate person, in a way that preserves goodwill and trust			
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	Motivation			
	The user/individual on the job needs to know and understand how to:			
	SA16. Take responsibility for completing one's own work assignment			
	SA17. Take initiative to enhance/learn skills in one's area of work			
	SA18. Learn from experience in a range of settings and scenarios and the			
	capacity to reflect on and analyse one's learning.			
	SA19. Identify new ways of doing things			
	SA20. Envisage and articulate personal goals; to develop strategies and take			
	action to achieve them.			
	Reliability			
	The user/individual on the job needs to know and understand how to:			
	SA21. Avoid absenteeism			
	SA22. Act objectively , rather than impulsively or emotionally when faced			
	with difficult/stressful or emotional situations			
	SA23. Work in disciplined factory environment			
	SA24. Be punctual			
B. Professional	Decision Making			
Skills	The user/individual on the job needs to know and understand how to:			
	SB1. The Operation of different types of measuring instruments.			
	SB2. The Operation of different types of Testing equipments.			
	SB3. Handle of various types of material handling equipment like forklifts, trolley.			
	SB4. Apply technology, combining the physical and sensory skills needed to			
	operate equipment with the understanding of scientific and			
	technological principles needed to explore and a systems.			
	Plan and Organize			
	The user/individual on the job needs to know and understand how to:			
	SB5. Seek clarification on problems from others			
	SB6. Apply problem-solving approaches in different situations			
	SB7. Refer anomalies to the line manager			
	Customer Centricity			
	NA			
	Problem Solving			
	The user/individual on the job needs to know and understand how to:			
	SB8. Interpret quality for sheet			
	SB9. Suggest improvements(if any) in process/product/materials based			
	on results and experience			
	Analytical Thinking			
	The user/individual on the job needs to know and understand how to:			
	SB10. Proper collection of waste material			
	SB11. Identify defects in the material and communicate it at the earliest and			
	suggest improvements (if any) in process/material based on experience			
	SB12. Diagnose common problems in the machine based on visual			
	inspection, sound , temperature etc			
	SB13. To suggest improvements(if any) in process based on experience			



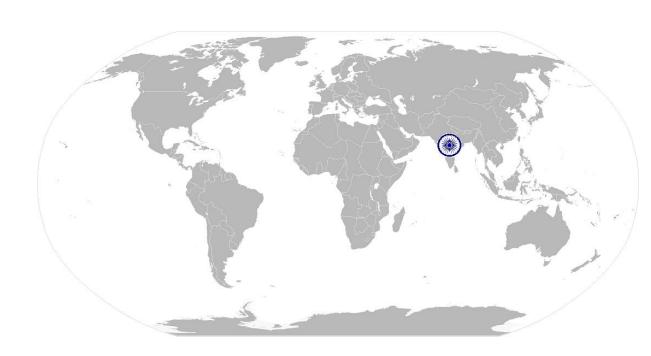






NOS Version Control

NOS Code	RSC/N4605 (CPC/N0316)					
Credits (NSQF)	3	Version number 1.0				
Sector	Rubber	Drafted on	18/05/2016			
Sub Sector	Manufacturing / Plastics Processing	Last reviewed on	26/12/2016			
Occupation	Plastics Extrusion	Next review date	31/12/2021			









CRITERIA FOR ASSESSMENT OF TRAINEES

Job Role: Machine Operator Assistant – Plastics Extrusion

Qualification Pack Code: RSC/N4601 (CPC/Q0303)
Sector Skill Council: Rubber Skill Development Council

Guidelines for Assessment:

- 1. Criteria for assessment for each Qualification Pack will be created by the Sector Skill Council. Each Performance Criteria (PC) will be assigned marks proportional to its importance in NOS. SSC will also laydown 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 centre (as per assessment criteria below)
- 4. Individual assessment agencies will create unique evaluations for skill practical for every student at each examination/training centre based on this criteria.
- 5. To pass the Qualification Pack, every trainee should score a minimum of 70% in every NOS.
- 6. In case of successfully passing only certain number of NOS's, the trainee is eligible to take subsequent assessment on the balance NOS's to pass the Qualification Pack.

·		Assessable outcome		Marks A	Allocation
NOS		Performance Criteria	Total	Theory	Practical
1. RSC/N4601	PC1	Understanding Types of Plastics used in Extrusion and Its Properties	8.5	2.5	6
(CPC/N0311): Basics	PC2	Types of Additives , Master batches and Pigments	8.5	2.5	6
Plastics Raw Materials,	PC3	Storing and Handling of Raw Materials and House Keeping	8.5	2.5	6
Additives,	PC4	Types of Extruders Used in the Extrusion Process and their Parts	8.5	2.5	6
Master batches,	PC5	Storing and Handling of Finished Products and House Keeping.	8.5	2.5	6
pigments &	PC6	Types of Mixing and Compounding	8.5	2.5	6
Extrusion Concept	PC7	Measurement of Additives, Pigments and Materials.	8	2	6
	PC8	Study and Operation of Scrap Grinding Machines, Blenders & Agglomerator	8	2	6
	PC9	Understanding Safety Equipment's and Its Use.	8	2	6
	PC10	Do's and Don'ts in Area of Operation	6	2	4
	PC11	Safety Precaution Majors before Operations.	6	2	4
		Sub Total	87	25	62







2 RSC/N4101 (CPC/N0411):	PC1. Wear protective clothing/equipment for specific tasks and work conditions	2.5	0.5	2
Maintain basic health and	PC2. Carry out safe working practices while dealing with hazards to ensure the safety of self and others.	2.5	0.5	2
safety	PC3. Apply good housekeeping practices at all times	2.5	0.5	2
practices at the workplace,	PC4. Use the various appropriate fire extinguishers on different types of fires correctly	2.5	0.5	2
5S	PC5. Demonstrate rescue techniques applied during fire hazard, demonstrate good housekeeping in order to prevent fire hazards, demonstrate the correct use of a fire extinguisher.	2.5	0.5	2
	PC6. Identify activities which can cause potential injury through sharp objects, burns, fall, electricity, gas leakages, radiation, poisonous fumes, chemicals, loud noise, and Identify areas in the plant which are potentially hazardous/unhygienic in nature. Conduct regular checks with support of the maintenance team on machine health to identify potential hazards due to wear and tear of machine.	2.5	0.5	2
	PC7. Inform the concerned authorities on the potential risks identified in the processes, workplace area/ layout, materials used etc, Inform the concerned authorities about machine breakdowns, damages which can potentially harm man/ machine during operations.	2.5	0.5	2
	PC8. Create awareness amongst other by sharing information on the identified risks.	2.5	0.5	2
	PC9. Follow the sorting process and check that the tools, fixtures & jigs that are lying on workstations are the ones in use and un-necessary items are not cluttering the workbenches or work surfaces.	2.5	0.5	2
	PC10. Ensure segregation of waste in hazardous/ non Hazardous waste as per the sorting work instructions	2.5	0.5	2
	PC11. Follow the technique of waste disposal and waste storage in the proper bins as per SOP	1.5	0.5	1
	PC12. Segregate the items which are labeled as red tag items for the process area and keep them in the correct places	1.5	0.5	1
	PC13. Sort the tools/ equipment/ fasteners/ spare parts as per specifications/ utility into proper trays, cabinets, lockers as mentioned in the 5S guidelines/ work instructions	1.5	0.5	1
	PC14. Ensure that areas of material storage areas are not overflowing PC15. Properly stack the various types of boxes and containers as per the size/ utility to avoid any fall of items/ breakage and also enable easy sorting when	1.5	0.5	1







		required			
	PC16.	Return the extra material and tools to the designated sections and make sure that no additional material/ tool is lying near the work area	1.5	0.5	1
	PC17.	Follow the floor markings/ area markings used for demarcating the various sections in the plant as per the prescribed instructions and standards.	1.5	0.5	1
	PC18.	Follow the proper labelling mechanism of instruments/ boxes/ containers and maintaining reference files/ documents with the codes and the lists	1.5	0.5	1
	PC19.	Check that the items in the respective areas have been identified as broken or damaged	1.5	0.5	1
	PC20.	Follow the given instructions and check for levelling of fluids, oils, lubricants, solvents, chemicals etc. and proper storage of the same To avoid spillage, leakage, fire etc.	1.5	0.5	1
	PC21.	Make sure that all material and tools are stored in the designated places and in the manner indicated in the 5S instructions.	1.5	0.5	1
		Subtotal	40	10	30
3.RSC/N4602 (CPC/N0313):	PC1	Understanding Types of Chemicals, Additives and Colorants.	5	1	4
Plastics	PC2	Formulation laid down for different Products	5	1	4
Compoundin	PC3	Weighing and Batch Size	5	1	4
g / Mixing,	PC4	Types of Blenders , Mixers and their Parts	5	1	4
Scrap,	PC5	Preparation Batches as per the formulations.	5	1	4
Grinding,	PC6	Loading and unloading of Batches.	5	1	4
Agglomeratin g	PC7	Temperature, Pressure and Speed involved in Blenders and Mixers.	6	2	4
	PC8	Importance of each and every Parameters.	8	1	7
	PC9	Precaution to be taken care during the batch preparation.	8	1	7
	PC10	Storing of batches after preparation.	8	1	7
	PC11	Types of Scrap Grinders and Agglomerator and their parts	8	1	7
	PC12	Operation & Trouble Shooting	7.5	0.5	7
	PC13	Storing, House Keeping, Safety while operation	5.5	0.5	5
	PC14	Understanding Safety Equipment's and Its Use.	4.5	0.5	4
	PC15	Do's and Don'ts in Area of Operation	4.5	0.5	4
	PC16	Safety Precaution Majors before Operations.	5	1	4
		Subtotal	95	15	80







4.RSC/N4603	PC1	Types of HDPE / PVC Extruders & their Parts.	3	1	2
(CPC/N0314)	PC2	Types of Film Extruders & their Parts	5	1	4
: HDPE /PVC	PC3	Starting up & Shutting down Process.	5	1	4
Pipe Extruder	PC4	Threading (Initial Take up) of Pipes & Films	5	1	4
& Film	PC5	Safety Precaution taken during assembling			
Extruder		and disassembling.	6	2	4
Machine	PC6	Material Loading and Handling.	6	2	4
Operation	PC7	Finished Products Segregation & Stacking	6	2	4
	PC8	Post Production Operation	6	2	4
	PC9	Understanding Safety Equipment's and Its	_		
		Use.	5	1	4
	PC10	Do's and Don'ts in Area of Operation	5	1	4
	PC11	Safety Precaution Majors before Operations.	3	1	2
		Subtotal	55	15	40
5.RSC/N4604 (CPC/N0315):	PC1	Report data/problems/incidents as per the laid down procedure in the prescribed format and registers.	6	2	4
Reporting & Documentati	PC2	Report to the appropriate authority as laid down by the company procedure.	6	2	4
on	PC3	Identify documentation to be completed relating to the job profile.	8	2	6
	PC4	Record details accurately in an appropriate format.	10	4	6
	PC5	Complete all documentation within stipulated time according to company procedure.	10	4	6
	PC6	Make sure documents are available to all appropriate authorities to inspect.	8	2	6
	PC7	Respond to requests for information in an appropriate manner whilst following organizational procedures.	8	2	6
	PC8	Inform the appropriate authority of requests for information received.	8	2	6
		Subtotal	64	20	44
6. RSC/N4605 (CPC/N0316) : To Carry Out Quality	PC1	Ensure that total range of checks as per the prescribed national and International standards on regular intervals throughout the shifts.	3	1	2
Checks	PC2	Use appropriate measuring instruments, equipment, tools, accessories etc., as prescribed / required	3	1	2
	PC3	Identify non-conformities to quality assurance standards.	3	1	2
	PC4	Identify potential causes of non-conformities	5	1	4







	to quality assurance standards			
PC5	Identify impact on final product due to non- conformance to prescribed Standards.	5	1	4
PC6	Evaluating the need for action to ensure that problems do not reoccur.	5	1	4
PC7	Suggest corrective action to address problem.	5	1	4
PC8	Review effectiveness of corrective action.	5	1	4
PC9	Interpret the results of the quality check correctly	5	1	4
PC10	Take up results of the findings with QC in charge/appropriate authority.	5	1	4
PC11	Take up the results of the findings within stipulated time	3	1	2
PC12	Record of results of action taken.	3	1	2
PC13	Record adjustments not covered by established procedures for future reference.	3	1	2
PC14	Review effectiveness of action taken.	3	1	2
PC15	Follow reporting procedures where the cause of defect cannot be identified.	3	1	2
		59	15	44
	Total	400	100	300