





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
- 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- Advance Plastics Mould Manufacturer (Level 4)

SECTOR: RUBBER

SUB SECTOR: PLASTICS PROCESSING

OCCUPATION: PLASTICS MOULD MANUFACTURING

REFERENCE ID: RSC/Q4703 (CPC/Q5804)

ALIGNED TO:

Brief Job Description:

The individual at work will Make the Mould Parts, will assembly & Polish the Mould. The individual will capable to operation of the Machine Tools like Lathe, Milling, Shaper, Surface Grinder, Cylindrical Grinder to produce good quality Mould Parts, he also capable to Programme & operate the CNC Lathe, Milling & EDM Machine to produce mould cavity. Individual will Generate the Tool Path programme with the help of CAD/CAM Software for sinking the Core/Cavity. Will independently Assembly & Polish a mould.

Personal Attributes:

This job requires the basic communication, basic numerical & computational abilities for the individuals to work under close supervision. The assistant mould maker is expected to be able to work in a factory environment and have the ability to work in standing position for long hours.









Qualifications Document for Advance Plastics Mould Manufacturing (L4)

Qualifications Pack Code	RSC/Q4703 (CPC/Q 5804)		
Job Role	Advance Plastics Mould Manufacturer (Level 4)		
Credits (NSQF)	48	Version number	1.0
Sector	Rubber	Drafted on	18/05/2016
Sub Sector	Plastics Processing	Last reviewed on	26/12/2016
Occupation	Plastics Mould Manufacturing	Next review date	31/12/2021
NSQC Clearance on	21/07/2016		

Role Description Role Description Role Description Role Description Role Description Role Description The individual at work will Make the Mould Parts, we assembly & Polish the Mould. The individual will capable to operation of the Machine Tools like Lathe, Milling, Shape Surface Grinder, Cylindrical Grinder to produce good quality Mould Parts, he also capable to Programme & operate the CNC Lathe, Milling & EDM Machine to produce mou cavity.Individual will Generate the Tool Path programme with help of CAD/CAM Software for sinking the Core/Cavity Will independently Assembly & Polish a mould NSQF level Minimum Educational Qualifications* Maximum Educational Qualifications* Training (Suggested but not mandatory) No previous training required
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Maximum Educational Qualifications* Training (Suggested but not mandatory) No previous training required
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(Suggested but not mandatory) No previous training required
Minimum Job Entry Age 18
Experience No previous experience required
Compulsory: 1. RSC/N4101 (CPC/N0411): Maintan basic health and safe practices at the Workplace,5S 2. RSC/N4701 (CPC/N5802): To understand basic concepts Engineering drawing & Can able to study the Job Drawing/ Blu Print & Dimensional Tolerances job 3. RSC/N4702 (CPC/N5803): Assist in performing the Moumaking Process by use of different types of Hand tools 4. RSC/N4703 (CPC/N5804): Study of Types of Plastics Mould 5. RSC/N4703 (CPC/N5805): Basic Machine Operation Skill Manufacture Mould Parts and study Metal cutting & Cuttin tools 6. RSC/N4705 (CPC/N5806):To Study about mould polishing an mould assembly 7. RSC/N4706 (CPC/N7014):Effective working with others. 8. RSC/N4706 (CPC/N 5808): Understand How to Operate N Lathe& NC Milling Machine, Programming of CNC Lath Milling machine 9. RSC/N4708 (CPC/N 5809): Understand How to Operate ED Machine 10. RSC/N4504 (CPC/N0219): Basics of computer and data entry MS OFFICE/office Open source suite software
Performance Criteria As described in the relevant OS units







Qualifications Document for Advance Plastics Mould Manufacturing (L4)

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 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.







Qualifications Document for Advance Plastics Mould Manufacturing (L4)

Quanjicati	ons bocament for havance i lastics would wanajactaring (14)	
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	













Overview

This unit is about establishing a Safety, Health and Environment friendly workplace.







Unit Code	RSC/N4101 (CPC/N0411)	
Unit Title (Task)	Maintain basic health and safety practices at the workplace, 5S	
(Task) Description Scope	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.	
	 The role holder will be responsible for 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 Criteria		
Element	Performance Criteria	
Health and safety	The individual on the job should be able 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. Keep 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 55 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/ area 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. Make sure that all material and tools are stored in the designated places and in the manner indicated in the 55 instructions		
Knowledge and Understanding (K)			
A. 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	The user/individual on the job needs to know and understand:
Knowledge	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
	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 various hazardous sites
	KB11. 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 clothing/equipment while working
	KB15. Precautionary activities to prevent the fire accident
	KB16. Various causes of fire
	KB17. The techniques of using the different fire extinguishers
	KB18. The different methods of extinguishing fire
	KB19. 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. 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. 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. 5S procedures
	KB29. various types 5s practices followed in various areas
	KB30. 5S checklists provided in the department/ team
	KB31. The useful & non useful items
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	 KB32. The knowledge of labels , signs & colours used as indicators KB33. The knowledge on how to sort and store various types of tools, equipment, material etc. KB34. To identify various types of waste products KB35. The impact of waste/ dirt/ dust/unwanted substances on the process/ environment/ machinery/ human body. KB36. The knowledge of best ways of cleaning & waste disposal 		
Skills (S) [Optional]			
Element	Skills		
A. Core Skills/	Writing Skills		
Generic 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 how to: SA2. Put up safety instructions across the plant premises SA3. Put up 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. Communicate information to team members effectively 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		
B. Professional 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. Analytical / 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		
	Team Work		

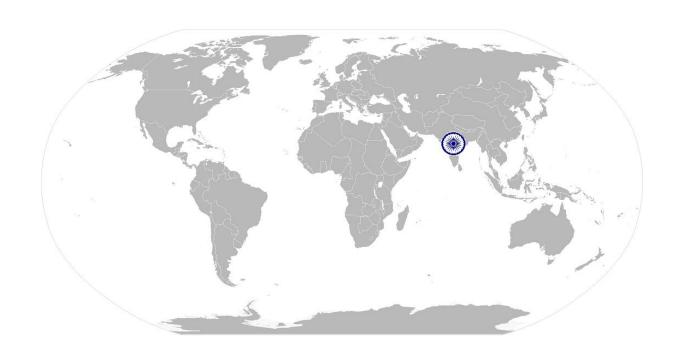








The user/individual on the job needs to know and understand how to:		
SB6.	Follow instructions and work on areas of improvement identified	
SB7.	Complete the assigned tasks with minimum supervision	
SB8.	Complete the job defined by the supervisor within the timelines and quality	
	norms	











NOS Version Control

NOS Code	RSC/N4101 (CPC/N0411)		
Credits (NSQF)	2 Version number 1.0		
Sector	Rubber	Drafted on	18/05/2016
Sub Sector	Plastics Processing		
	Diagrice Mould	Last reviewed on	26/12/2016
Occupation	Plastics Mould Manufacturing	Next review date	31/12/2021













Overview

This unit is about Understand basic concepts of Engineering drawing & Can able to study the Job Drawing/ Blue Print & Dimensional Tolerances job requirements & basics knowledge related to Mould Making process.









Unit Code	RSC/N4701 (CPC/N5802)			
Unit Title	Understand basic concept, job requirements and basics knowhow related to the			
(Task)	Mould Making process			
Description	This OS unit is about understanding the engineering Drawing, Standards. Reading of			
	Mould Assembly Drawings & Detail's Drawings of Mould Parts			
Scope	This unit/ task covers the following:			
	Understanding the Drawing required for mould making			
	Reading of Dimensional tolerances			
	Study of Bill of Materials			
Performance criteria (PC) w.r.t. the Scope			
Element	Performance criteria			
Understand the	The individual on the job should be able to:			
work and the	PC1. Interact with the head mould maker & follow the mould drawing			
Operation	PC2. Help in planning the day's Mould making activities based on the Drawing			
requirements from	PC3. Ensure availability of tools and raw materials for production in sufficient			
Mould Making	quantity as per production plan/operator instructions.			
point of View.	PC4. Clearly understand the drawing, dimension & tolerances of the individual part			
	before making it.			
	PC5. Follow the assembly drawing & detail drawing of mould / mould parts.			
Help in arrange	PC6. Ensure that the required raw material/tools is procured from the store/tool crib			
for the material,	before starting the work			
Tools to be Used	PC7. Ensure the tools required to execute mould making process and ensure that t			
for Mould	same îs available in shop floor			
Making	PC8. Check tool is available collect the tools from tool crib.			
Check materials and	PC9. Ensure the raw material like steel material for different mould parts from the			
apparatus for	drawing			
Operations				
Knowledge and Under	standing (K)			
B. Organizational	The user/individual on the job needs to know and understand:			
Context	KA1. Company's code of conduct			
(Knowledge of the	KA2. Different types of products manufactured by the company			
company /	KA3. Functional processes like Procurement, Store management, inventor			
organization and	management, quality management, incentives, personnel management			
	KA4. Importance of individual's role in the work flow			
its processes)	KA5. Organization culture			
	KA6. Company's reporting structure			
	KA7. Company's documentation policy			
Skills (S) [Optional]				









C.	Core Skills/	Reading and Writing Skills		
	Generic Skills	The user/ individual on the job needs to know and understand how to: SA1. Read Drawings, instructions and other text material on product labels, Mould Drawing etc.		
		Oral Communication (Listening and Speaking skills)		
		The user/individual on the job needs to know and understand how to: SA2. Discuss task lists, schedules, and work-loads with co-workers SA3. Question internal customers/ Shop floor operator appropriately in order to understand the nature of the problem and make a diagnosis SA4. Avoid using jargon, slang or acronyms when communicating with an operator /fellow subordinates etc. Unless it is required.		
D.	D. Professional Skills Problem solving			
		The user/individual on the job needs to know and understand how to: SB1. Support operator in using specific problem solving techniques and detailing out the problems SB2. Discuss possible solution with the operator for problem solving.		
	Plan and Organize			
		The user/individual on the job needs to know and understand how to: SB3. Plan and organize the work order and jobs received from the internal customers/ operator. SB4. Organize all process/ equipment manuals so that sorting out		
		Team Work		
SB5. Follow instructions and work on areas of i SB6. Complete the assigned tasks with minimum		SB6. Complete the assigned tasks with minimum supervision SB7. Complete the job defined by the operator within the timelines and quality.		
The user/individual on the job needs to know and understand how to:				
		SB8. Use common sense and make judgments during day to day basis SB9. Use basic reasoning skills to identify and resolve basic problems SB10. Use intuition to detect any potential problems which could arise during operations.		









NOS Version Control

NOS Code	RSC/N4701 (CPC/N5802)		
Credits (NSQF)	4.5 Version number 1.0		
Sector	Rubber	Drafted on 18/05/2016	18/05/2016
Sub Sector	Plastics Processing	Dianteu oii	18/03/2010
	Plastics Mould	Last reviewed on	26/12/2016
Occupation	Manufacturing	Next review date	31/12/2021





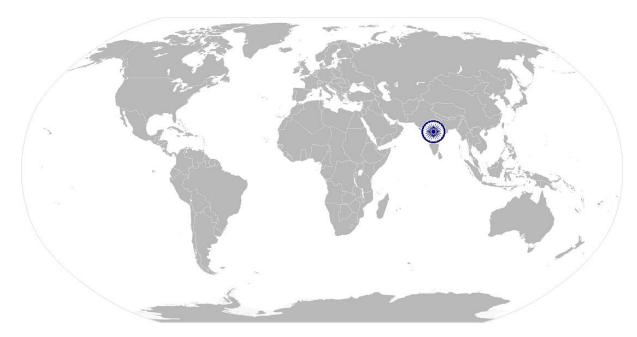






RSC/N4702 (CPC/N5803) Assist in performing the Mould making Process by use of different types of Hand tools

National Occupational Standards



Overview

This unit is about to accrue the skill for use of different types of hand tools & Measuring instruments.



National Occupational Standards





RSC/N4702 (CPC/N5803) Assist in performing the Mould making Process by use of different types of Hand tools

Unit Code	RSC/N4702 (CPC/N5803)		
Unit Title (Task)	Assist in performing the Mould making Process by use of different types of Hand tools		
Description	This OS unit is about assisting in producing good quality mold Parts & assembled Mould in line with the required specifications		
Scope	 The Mould Maker assistant will be responsible for Assist in Making the Mould Parts using Hand tools Use of handling different measuring instruments Assisting in Assembly of Mould using hand tool & Polishing tools 		
Performance criteria (PC)) w.r.t. the Scope		
Element	Performance criteria		
USE Of Hand Tools , Measuring Instruments & Assembly Tools	The individual on the job should be able to: PC1. Perform & using of different hand tools PC2. Hands on skill & accuring practices on measurement of mould parts PC3. Select different tools for particular job PC4. Perform to handle the vernier caliper, micrometer etc. PC5. Set job on different types of vices.		
Knowledge and Unders	standing (K)		
A. Organizational Context (Knowledge of the company / organization and its processes)	The user/individual on the job needs to know and understand: KA1. Departments code of conduct KA2. Different types machines in the company, its specifications etc. KA3. Department documentation policy		
B. Technical Knowledge	The user/individual on the job needs to know and understand: KB1. General principles of moulding Making operations, Operation of Conventional & CNC Machines, Assembly of Mould etc. KB2. Trail of the Mould		
Skills (S) [Optional]			
A. Core Skills/	Reading and Writing Skills		
Generic Skills	The user/ individual on the job needs to know and understand how to: SA1. Read instructions especially safety instructions especially symbols while using the equipment in the plant area SA2. Note measurements, equipment panel readings for various process parameters in the required reporting formats SA3. Visualize final product output and hence decide on the key steps to be followed		









RSC/N4702 (CPC/N5803) Assist in performing the Mould making Process by use of different types of Hand tools

	SA4. Safety precautions to be taken for entire Mould Making process			
	Oral Communication (Listening and Speaking skills)			
	The user/individual on the job needs to know and understand how to: SA6. Discuss task lists, schedules, and work-loads with co-workers/operator SA7. Question internal customers/ Mould shop operator appropriately in order to understand the nature of the problem and make a diagnosis			
B. Professional Skills	Decision Making			
	The user/individual on the job needs to know and understand how to: SB1. Detect problems in day to day tasks SB2. Support operator in using specific problem solving techniques and detailing out the problems SB3. Discuss possible solution with the operator for problem solving SB4. Make decisions in emergency conditions in case the operator is not available (as per the authority matrix defined by the organization)			
	Plan and Organize			
	The user/individual on the job needs to know and inderstand how to: SB5. Organize all process/ equipment manuals so that sorting out information is Fast SB6. Organize apparatus etc. in an orderly manner at proper designated areas SB7. Visualize final product output and hence decide on the key steps to be followed.			
	Problem solving			
The user/individual on the job needs to know and understand how to: SB8. Follow instructions and work on areas of improvement identified SB9. Complete the assigned tasks with minimum supervision SB10. Complete the job defined by the operator within the time Quality				
	Analytical Thinking			
	The user/individual on the job needs to know and understand how to: SB11. Visualize the final job product after understanding the given standard product. SB12. Finalize the optimum levels of physical parameters with operator guidance so that the job output meets the prescribed job standards			









RSC/N4702 (CPC/N5803) Assist in performing the Mould making Process by use of different types of Hand tools

NOS Version Control

NOS Code	RSC/N4702 (CPC/N580	RSC/N4702 (CPC/N5803)		
Credits (NSQF)	2.5	2.5 Version number 1.0		
Sector	Rubber	Drafted on	18/05/2016	
Sub Sector	Plastics Processing			
	Disting Manual	Last reviewed on	26/12/2016	
Occupation	Plastics Mould Manufacturing	Next review date	31/12/2021	



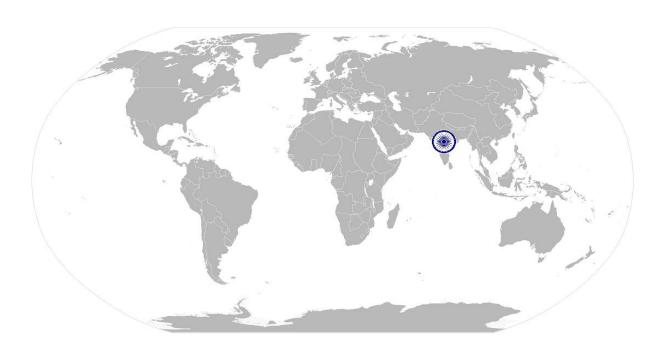








National Occupational Standards



Overview

Study Types of Plastics Mould.









Unit Code	RSC/N4703 (CPC/N5804)			
Unit Title				
(Task)	Study about Types of Mould and its function			
Description	This OS unit is about study of different types of Mould & Their Design Aspects			
Scope	The Mould Maker assistant will be responsible for			
	checking the finished Parts			
	 conducting minor repair/Replacing if any on output parts 			
Performance criteria (PC) w.r.t. the Scope			
Element	Performance criteria			
Study of Assembled	The individual on the job should be able to:			
Mould & Mould	PC1. Study the two plate injection mould & three plate injection mould			
Design				
Study Of Mould	PC2. Study the mould feed system, types of gate			
feed System &	PC3. Study the different types of cooling system			
Cooling System				
Study of Mould	PC4. Study the different ejection system of mould.			
Ejection System				
Knowledge and Under				
A. Organizational	The user/individual on the job needs to know and understand:			
Context	KA1. Relevant standards specified for the manufacturing process KA2. Basic process followed for inspection of the lot.			
(Knowledge	KA3. Quality Management policy of the organization.			
of the company /	KAS. Quality Management policy of the organization.			
organization and				
its processes)				
B. Technical	The user/individual on the job needs to know and understand: KB1. The Processes and procedures followed for manufacturing the lot/ pieces/			
Knowledge	KB1. The Processes and procedures followed for manufacturing the lot/ pieces/ products.			
	KB2. The Techniques of using measurement instruments like rulers, weighing			
	scales etc.			
	KB3. The Methods to identify quality defects in the lot.			
	KB4. The Impact of defects on the overall working of the Injection Moulding			
	machine.			









Skills (S) [Optional]	
A. Core Skills/	Writing Skills
Generic Skills	The user/ individual on the job needs to know and understand how to: SA1. Note the number of lot with defects which can be repaired to number of lot which will be discarded. Reading Skills
	The user/individual on the job needs to know and understand how to: SA2. Read process and equipment manuals, material data sheets etc. to understand the working of the equipment & material properties.
	Oral Communication (Listening and Speaking skills)
	The user/individual on the job needs to know and understand how to: SA3. Inform operator of any quality related defects arising out of the manufacturing process. SA4. Question internal customers/ operator appropriately in order to understand the nature of the problem and make a diagnosis.
B. Professional Skills	Plan and Organize
	The user/individual on the job needs to know and understand how to: SB1. Organize all process/ equipment manuals so that sorting/ accessing information is easy. SB2. Keep fixtures, tools, drawings, Work Instructions, SOP manuals as per the part number, colour codes etc. as defined under the 5S systems.
	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 use reasoning skills to identify and resolve basic problems SB5. Carefully analyze each defect observed and try to find solution for the defect along with the operator.
	Quality Consciousness
	The user/individual on the job needs to know and understand how to: SB6. Identify defective parts in the manufacturing line by comparing manufactured with the work standard. SB7. Link the defect observed with the overall impact on the performance of the
	Mould).









NOS Version Control

Credits (NSQF)	8.5	Version number	1.0
Sector	Rubber	Duestad ou	18/05/2016
Sub Sector	Plastics Processing	Drafted on	
	Plastics Mould	Last reviewed on	26/12/2016
Occupation	Manufacturing	Next review date	31/12/2021









RSC/N4704 (CPC/N5805) Machine practice on conventional & CNC Machines

National Occupational Standards



Overview

Can able to operate all kind of Conventional Machines and study of cutting tools and its application



National Occupational Standards





RSC/N4704 (CPC/N5805) Machine practice on conventional & CNC Machines

Unit Code	RSC/N4704 (CPC/N5805)			
Unit Title				
(Task)	Machining Practice on Conventional & CNC Machines			
Description	This OS unit is about the accruing the required skill in operation of Conventional			
	Machine Tools in Mould Making			
Scope	The role holder will be responsible for			
	Can manufacture the Mould Parts independently using Conventional Lathe,			
	Milling, & Grinding Machine			
	Can able to grind the cutting tools			
Performance criteria (PC) w.r.t. the Scope			
Element	Performance criteria			
Understand the	The individual on the job should be able to:			
work and the	PC1 Set the work piece & Set the cutting Tools			
Operation of Lathe	PC2 Operate the Lathe Machine & to perform different operation			
Machine from	PC3 Operate the CNC Lathe			
Mould Making				
point of View.				
Understand the	PC4 Set the work piece & Set the cutting Tools			
work and the Operation of	PC5 Operate the Milling Machine & to perform different operation			
Lathe Machine	PC6 Operate the CNC Milling machine to perform different operations			
from Mould				
Making point of				
View				
Understand the work	PC7 Grind the Mould Plates & Inserts using Surface Grinding machine			
and the Operation of	PC8 Operate the Cylindrical Grinding & to perform different operation			
Grinding Machine	PC9 Perform Grinding on Guide Pillar & Bush			
from Mould Making				
point of View				
Knowledge and Unders				
C. Organizational	The user/individual on the job needs to know and understand:			
Context	KA1. Company's code of conduct			
(Knowledge of the	KA2. Different types of products manufactured by the company KA3. Functional processes like Procurement, Store management, inventory			
company /	management, quality management, incentives, personnel management			
organization and	KA4. Importance of individual's role in the work flow			
its processes)	KA5. Organization culture			
	KA6. Company's reporting structure			
	KA7. Company's documentation policy			









RSC/N4704 (CPC/N5805) Machine practice on conventional & CNC Machines

Sk	Skills (S) [Optional]			
E.	Core Skills/	Reading and Writing Skills		
	Generic Skills	The user/ individual on the job needs to know and understand how to: SA5. Read Drawings, instructions and other text material on product labels, Mould Drawing etc.		
		Oral Communication (Listening and Speaking skills)		
SA6. Discuss task lists, schedules, and work-loads with co-workers SA7. Question internal customers/ Shop floor operator appropriunderstand the nature of the problem and make a diagnosis SA8. Avoid using jargon, slang or acronyms when communicating		SA7. Question internal customers/ Shop floor operator appropriately in order to understand the nature of the problem and make a diagnosis		
F.	Professional Skills	Problem solving		
		The user/individual on the job needs to know and understand how to: SB1. Support operator in using specific profession solving techniques and detailing out the problems SB2. Discuss possible solution with the operator for problem solving. Plan and Organize The user/individual on the job needs to know and understand how to: SB3. Plan and organize the work order and jobs received from the internal customers/ operator. SB4. Organize all process/ equipment manuals so that sorting out		
		Team Work		
		The user/individual on the job needs to know and understand how to: SB5. Follow instructions and work on areas of improvement identified SB6. Complete the assigned tasks with minimum supervision SB7. Complete the job defined by the operator within the timelines and quality.		
		Critical Thinking		
		The user/individual on the job needs to know and understand how to: SB8. Use common sense and make judgments during day to day basis SB9. Use basic reasoning skills to identify and resolve basic problems SB10. Use intuition to detect any potential problems which could arise during operations.		









RSC/N4704 (CPC/N5805) Machine practice on conventional & CNC Machines

NOS Version Control

NOS Code	RSC/N4704 (CPC/N580	RSC/N4704 (CPC/N5805)		
Credits (NSQF)	6	6 Version number 1.0		
Sector	Rubber	Drafted on	18/05/2016	
Sub Sector	Plastics Processing	Draited on		
	Plastics Mould Manufacturing	Last reviewed on	26/12/2016	
Occupation		Next review date	31/12/2021	











National Occupational



Overview

Mould Polishing & Mould Assembly.









4	Unit Code	RSC/N4705 (CPC/N5806)			
	Unit Title (Task)	To Study about mould polishing and mould assembly			
	Description	This OS unit is about the accruing the required skill in polishing the mould as well as assembly the Mould			
	Scope	The role holder will be responsible for Assembly the Mould independently Polish mould parts To identify difficulties while assembly 			
	Performance criteria (PC) w.r.t. t				
	Element	Performance Criteria			
	Mould Polishing &	The individual on the job should be able to:			
	•	PC1 Polish the core and cavity			
		PC2. Polish the mating parts of mould			
		PC3. Identify the mould parts			
		PC4. Assemble the mould independently			
	Knowledge and Understanding (
	Element	Knowledge and Understanding			
	- 0	The user/individual on the job needs to know and understand: KA1. Relevant standards, procedures and policies related to Health,			
	Context (Knowledge of the	Safety and Environment followed in the company			
	company / organization and	KA2. Emergency handling procedures & hierarchy for escalation			
ŀ	its processes) B. Technical Knowledge	The user/individual on the job needs to know and understand:			
	b. Technical Knowledge	KB1. Basic knowledge of mould			
		KB2. Basic knowledge of various techniques of polishing			
		KB4. Knowledge of mould parts			
		KB5. Knowledge of Mould assembly			
	Skills (S)w.r.t. the scope				
	Element	Skills			
	A. Core Skills/ Generic Skills	Writing Skills			
		The user/ individual on the job needs to know and understand how to:			
		SA1. Write basic level notes and observations			
		Reading Skills			
		The user/individual on the job needs to know and understand how to: SA2. Assemble the mould and what are the parts of mould SA3. Mould handling device			
		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		
B. Professional Skills	Problem solving		
	The user/individual on the job needs to know and understand how to: SB1. Use common sense and make judgments during day to day basis SB2. Use reasoning skills to identify and resolve basic problems		









NOS Version Control

NOS Code	RSC/N4705 (CPC/N5806)		
Credits (NSQF)	1	Version number	1.0
Sector	Rubber	Drafted on	18/05/2016
Sub Sector	Plastics Processing		
Occupation	Plastics Mould Manufacturing	Last reviewed on	26/12/2016
		Next review date	31/12/2021

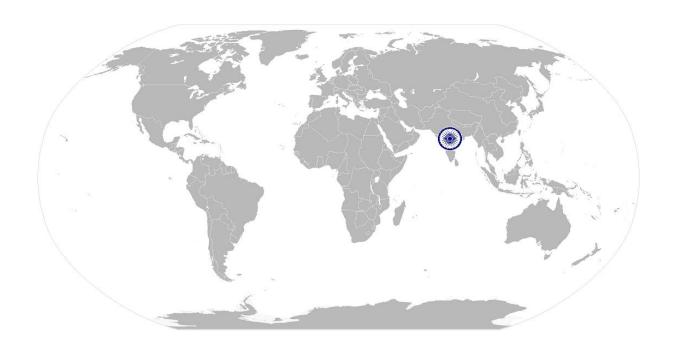








National Occupational Standards



Overview

This unit covers basic practices that improve effectiveness of working with others in an organizational set-up.









Unit Code	RSC/N4203 (CPC/N7014)		
Unit Title (Task)	Effective working with others		
Description	This unit covers basic etiquette and competencies that an individual is required to possess & demonstrate in their behavior & interactions with others at workplace. These cover areas such as communication, discipline, handling conflict and grievances.		
Scope	This unit/task covers the following:		
	Effective Working with others		
Performance Criteria (-		
Element	Performance Criteria		
Effective Working with			
others	PC2. Follow appropriate communication etiquette while working PC3. Demonstrate responsible & disciplined behaviors at the workplace PC4. Receive information and instructions from the supervisor accurately and fellow workers, getting clarification where required PC5. Pass on information accurately to whorized persons who require it & within agreed timescale and confirm its receipt PC6. Display helpful behavior by assisting others in performing tasks in a positive manner, where required and possible PC7. Assist others to maximize effectiveness and efficiency in carrying out tasks PC8. Escalate grievances and problems to appropriate authority as per procedure to resolve them and avoid conflict.		
Knowledge and Unders	standing (K)		
A. Organizational Context (Knowledge of the company / organization and its processes)	The individual on the job needs to know and understand: KA1. Policies and procedures followed in the company for working with others in an organizational set-up. KA2. Grievance/ conflict handling mechanism of the company KA3. Relevant people and their responsibilities within the work area		
B. Technical	The user/individual on the job needs to know and understand:		
Knowledge	 KB1. Importance of effective communication in the workplace KB2. Importance of teamwork in organizational and individual success KB3. Barriers to effective communication KB4. Importance of avoiding casual expletives and unpleasant terms while communicating professional circles KB5. Various categories of people that one is required to communicate and co- ordinate within the organization KB6. Importance of discipline for professional success KB7. Importance of ethics for professional success KB8. The disciplined behavior for a working professional 		

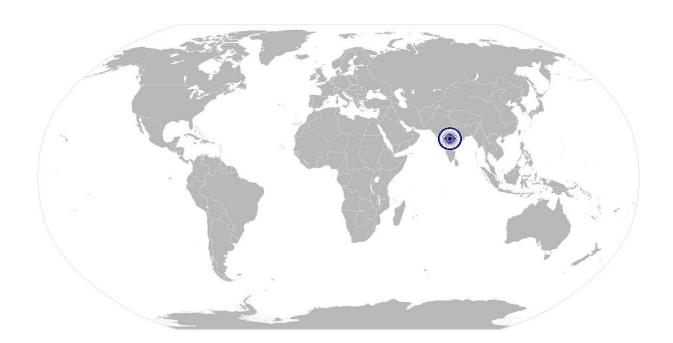








KB9. Common reasons for interpersonal conflict
KB10. Importance and ways of managing interpersonal conflict effectively
KB11. Importance of developing effective working relationships for professional
success
KB12. Expression and address the grievances appropriately and effectively





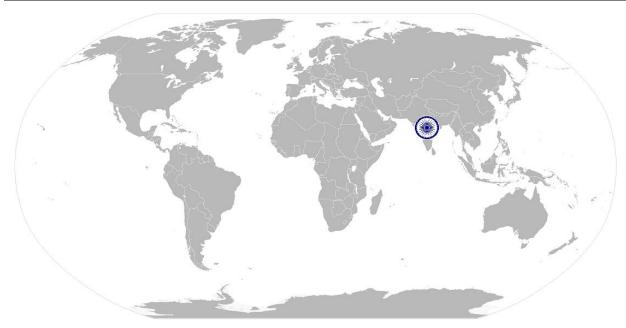






NOS Version Control

NOS Code	RSC/N4203 (CPC/N7014)		
Credits (NSQF)	1.25	Version number	1.0
Sector	Rubber	Drafted on	18/05/2016
Sub Sector	Plastics Processing	- Draited on	
Occupation	Plastics Mould Manufacturing	Last reviewed on	26/12/2016
		Next review date	31/12/2021





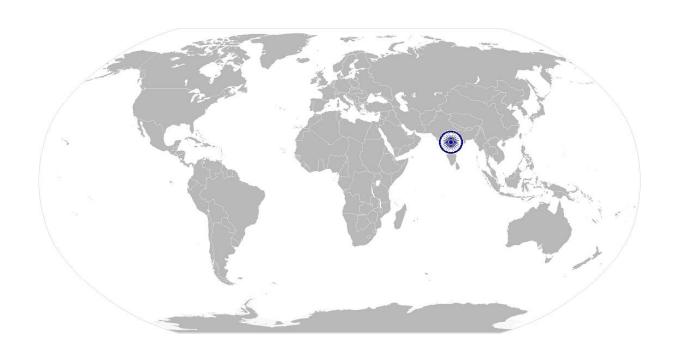






RSC/N4706 (CPC/N 5808) Understand How to Operate NC Lathe& NC Milling Machine, Programming of CNC Lathe, Milling machine

National Occupational Standards



Overview

Can able to operate all kind of CNC Machines for manufacturing Moulds.









RSC/N4706 (CPC/N 5808) Understand How to Operate NC Lathe& NC Milling Machine, Programming of CNC Lathe, Milling machine

4	Unit Code	RSC/N4706 (CPC/N 5808)		
	Unit Title	Understand How to Operate CNC Lathe& CNC Milling Machine,		
	(Task)	Programming of CNC Lathe, Milling machine		
	Description	This OS unit is about the accruing the required skill in operation of CNC Machine Tools in Mould Making		
	Scope	The role holder will be responsible for • Can manufacture the Mould Parts independently using CNC Lathe, Milling, & Grinding Machine		
	Performance criteria (PC) w.r.t. t	the Scope		
	Element	Performance criteria		
	Operation of CNC Lathe & Milling	The individual on the job should be able to: PC1. Set the of Work Piece PC2. Set the Tools & Tool Offset Calculation PC3. Run the CNC Tool Path Programme PC4. Run the Machine Tool PC5. Run The programme in Full sequence PC6. Perform different operation machine		
	Knowledge and Understanding (K)w.r.t. the scope		
	Element	Knowledge and Understanding		
	A. Organizational Context (Knowledge of the company / organization and its processes)	The user/individual on the job needs to know and understand: KA1. Relevant standards, procedures and policies related to Health, Safety and Environment followed in the company KA2. Emergency handling procedures & hierarchy for escalation		
	B. Technical Knowledge	The user/individual on the job needs to know and understand: KB1. Basic knowledge of CNC Programing and coding KB2. Basic knowledge of various CNC Machines like Lathe, milling etc. KB4. Knowledge of writing the program and handle the machine KB5. Knowledge of Mould parts		
	Skills (S)w.r.t. the scope			
	Element	Skills		
	A. Core Skills/ Generic Skills	Writing Skills		
		The user/ individual on the job needs to know and understand how to: SA1. Write basic level notes and observations		
		Reading Skills		









RSC/N4706 (CPC/N 5808) Understand How to Operate NC Lathe& NC Milling Machine, Programming of CNC Lathe, Milling machine

	The user/individual on the job needs to know and understand how to:			
	SA2. Read safety instructions put up across the plant premises			
	SA3. Read safety precautions mentioned in equipment manuals and			
	panels to 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			
B. Professional Skills	Problem solving			
	The user/individual on the job needs to know and understand how to:			
	SB1. Use common sense and maching day to day basis			
	SB2. Use reasoning skills to identify and resolve basic problems			









RSC/N4706 (CPC/N 5808) Understand How to Operate NC Lathe& NC Milling Machine, Programming of CNC Lathe, Milling machine

NOS Version Control

NOS Code	RSC/N4706 (CPC/N 580	RSC/N4706 (CPC/N 5808)		
Credits (NSQF)	20	20 Version number 1.0		
Sector	Rubber	18/05/2016		
Sub Sector	Plastics Processing	— Drafted on	18/03/2016	
	Plastics Mould	Last reviewed on	26/12/2016	
Occupation	Manufacturing	Next review date	31/12/2021	



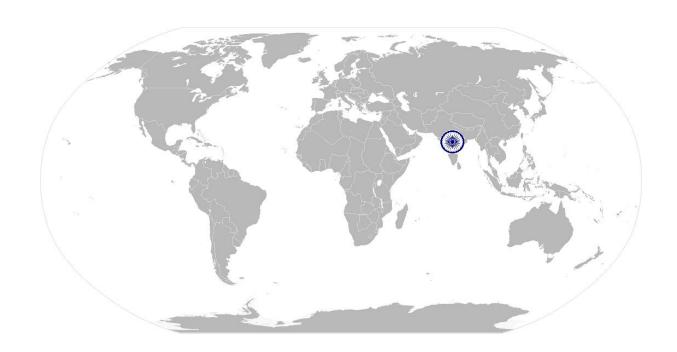








National Occupational Standards



Overview

Can able to operate EDM Machine & Wire EDM Machine for manufacturing Moulds.









Unit Code	RSC/N4708 (CPC/N 5809)		
Unit Title	Understand How to Operate EDM Machine		
(Task)			
Description	This OS unit is about the accruing the required skill in operation of EDM Machine in Mould Making		
Scope	The role holder will be responsible for		
	 Can manufacture the Mould Parts independently using EDM & Wire EDM Machine 		
Performance criteria (PC) w.r.t. t	he Scope		
Element	Performance criteria		
Operation of CNC Lathe & Milling	The individual on the job should be able to: PC1. Set the Work Piece PC2. Set the Tools & Tool Offset Calculation PC3. Calculate Spark Gap PC4. Dial the both Electrode and job PC5. Run The programme in Full sequence PC6. Perform different operations on machine		
Knowledge and Understanding (K)w.r.t. the scope		
Element	Knowledge and Understanding		
A. Organizational Context (Knowledge of the company / organization and its processes)	The user/individual on the job needs to know and understand: KA1. Relevant standards, procedures and policies related to Health, Safety and Environment followed in the company KA2. Emergency handling procedures & hierarchy for escalation		
	The user/individual on the job needs to know and understand: KB1. Basic knowledge of EDM Programing and coding KB2. Willing to operate EDM Machine KB4. Knowledge of writing the program and handle the machine KB5. Knowledge of Mould parts		
Skills (S)w.r.t. the scope			
Element	Skills		
A. Core Skills/ Generic Skills	Writing Skills		
	The user/ individual on the job needs to know and understand how to: SA1. Write basic level notes and observations		
	Reading Skills		









	The user/individual on the job needs to know and understand how to:
	SA2. Read safety instructions put up across the plant premises
	SA3. Read safety precautions mentioned in equipment manuals and
	panels to 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
B. Professional Skills	Problem solving
	The user/individual on the job needs to know and understand how to:
	SB1. Use common sense and make juggments during day to day basis
	SB2. Use reasoning skills to identify and resolve basic problems









NOS Version Control

NOS Code	RSC/N4708 (CPC/N 5809)			
Credits (NSQF)	1 Version number 1.0			
Sector	Rubber		18/05/2016	
Sub Sector	Plastics Processing	Drafted on		
	Diantino Marrid	Last reviewed on	26/12/2016	
Occupation	Plastics Mould Manufacturing	Next review date	31/12/2021	











National Occupational Standards



Overview

This unit is about Basics of computer and data entry in MS OFFICE/office Open source suite Software & Communication Skill.









Unit Code	RSC/N4504 (CPC/N0219)			
Unit Title (Task)	Basics of computer and data entry in MS OFFICE/office Open source suite Software			
Description	This OS unit is about the Data Entry Operation for various machine operations related details like entering, updating and maintain Job work related data the computer systems having MS Office software			
Scope	This unit / task covers the following • Enter, update and maintain data in MS Office system			
Performance criteria (F	C) w.r.t. the Scope			
Element	Performance criteria			
Enter, update and maintain data	To be competent, the user/individual on the job must be able to: PC1. Fill the process mandated forms for receiving, processing, or tracking data, enter data from source documents (such as trial report, process sheet etc.) in to Computer application having MS OFFICE software/Office Open source software. PC2. Scan source documents in accordance with specific instructions. PC3. Verify data entered with source documents, checks for compliance and corrects all typographical errors and missing or repeated data. PC4. Maintain files of source documents or other information related to data entered. PC5. Update database information to reflect most current source information PC6. Assist in the filing and storage of security and back up data files PC7. Respond to requests for information and access relevant files			
Knowledge and Unders	standing (K)			
A. Organizational Context (Knowledge of the company / organization and its processes)	The user/individual on the job needs to know and understand: KA1. The data management applications/tools used by the company KA2. Data entry protocol KA3. Data integrity and security policies of the company KA4. Approved methods for carrying document control and archiving			
B. Technical Knowledge	The user/individual on the job needs to know and understand: KB1. Basic understanding computers and its terminology KB2. Work on different software needed for report writing including MS office suit or open source office			









Skills (S) [Optional]	Skills (S) [Optional]				
A. Core Skills/	Reading and Writing Skills				
Generic Skills	The user/ individual on the job needs to know and understand how to:				
	SA1. Efficiently enter data into computer applications				
	SA2. Prepare legible reports				
	SA3. Read and understand manuals, SOPs, instructions, memos, reports, job cards				
	etc.				
	Oral Communication (Listening and Speaking skills)				
	The user/individual on the job needs to know and understand how to:				
	SA4. Communicate effectively with the team members and supervisors				
B. Professional Skills	Analytical Thinking				
	The user/individual on the job needs to know and understand how to:				
	SB1 Apply basic logic to identify data errors				
	SB2. Pay attention to details				
	Plan and Organize				
	The user/individual on the job needs to knowind understand how to:				
	SB3. Plan assigned tasks within timeline and as per priority order specified				
	Problem solving				
	The user/individual on the job needs to know and understand how to:				
	SB4. Identify process improvements				









NOS Version Control

NOS Code	RSC/N4504 (CPC/N0219)			
Credits (NSQF)	1.25 Version number		1.0	
Sector	Rubber	Drafted on		
Sub Sector	Plastics Processing		18/05/2016	
	Diastics Mould	Last reviewed on	26/12/2016	
Occupation	Plastics Mould Manufacturing	Next review date	31/12/2021	









CRITERIA FOR ASSESSMENT OF TRAINEES

Job Role: Advanced Plastic Mould Manufacturer (Level-4)

Qualification Pack Code:RSC/Q4703 (CPC/Q5803)
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	Ma	Marks Allocation		
NOS	Performance criteria	Total	Theory	Practica I	
(RSC/N4101 (CPC/N0411):	PC1. Wear protective clothing/equipment for specific tasks and work conditions	2.5	0.5	2	
Maintain basic health and safety practices at the	PC2. Carry out safe working practices while dealing with hazards to ensure the safety of self and others.	2.5	0.5	2	
workplace, 5S	PC3. Keep good housekeeping practices at all times	2.5	0.5	2	
	PC4. Use the various appropriate fire extinguishers on different types of fires correctly	2.5	0.5	2	
	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	2.5	0.5	2	







	tear of machine.			
	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 unnecessary 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
PC1:	 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	3. 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
	 Ensure that areas of material storage areas are not overflowing 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 	1.5	0.5	1
PC16	6. 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	7. 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	3. Follow the proper labelling mechanism of	1.5	0.5	1







	1				1
		instruments/ boxes/ containers and			
		maintaining reference files/ documents			
		with the codes and the lists			
	PC19.	Check that the items in the respective			
		areas have been identified as broken or	1.5	0.5	1
		damaged			
	PC20.	Follow the given instructions and check			
		for levelling of fluids, oils, lubricants,			
		solvents, chemicals etc. and proper	1.5	0.5	1
		storage of the same To avoid spillage,			
		leakage, fire etc.			
	PC21.	Make sure that all material and tools are			
		stored in the designated places and in the	1.5	0.5	1
		manner indicated in the 5S instructions.			
	Sub to	tal	40	10	30
	PC1.	Interact with the head mould maker &	7.5	2.25	5.25
RSC/N4701		understand the mould drawing	7.5	2.23	3.23
(CPC/N5802): To	PC2.	Help in planning the day's Mould making	7.5	2.25	5.25
understand basic		activities based on the Drawing	7.5	2.23	5.25
concepts of	PC3.	Ensure availability of Tools and Raw			
Engineering		materials for production in sufficient	5	1.5	3.5
drawing & Can		quantity as per production	3	1.5	3.5
able to study the		plan/operators instructions.			
Job Drawing/ Blue	PC4.	Clearly understand the Drawing,			
Print &		Dimension & Tolerances of the individual	5	1.5	3.5
Dimensional		part before making it.			
Tolerances job	PC5.	Follow the Assembly Drawing & Detail	5	1.5	3.5
		Drawing of Mould / Mould Parts.	3	1.5	3.3
	PC6.	Ensure that the required raw			
		material/Tools is procured from the	5	1.5	3.5
		store/Tool Crib before starting the work			
	PC7.	Ensure the Tools required to execute the			
		required Mould Making Process and	5	1.5	3.5
		ensure that the same is available in shop			0.0
		floor			
	PC8.	collect the tools from tool crib, If tool is	5	1.5	3.5
		not available			
	PC9.	Ensure the raw material like steel	_		
		material for different mould parts from	5	1.5	3.5
		the drawing			
	Sub to		50	15	35
RSC/N4702		erform Handling & Using of Different Hand	10	3	7
(CPC/N5803):	tools		-	-	
Assist in		ands on Skill & Accruing Practices on	10	3	7
performing the	measu	urement of Mould Parts			







Mould making				
Process by use of	PC3.Select Different tools for particular job	10	3	7
different types of	PC4.Perform to handle the vernier Caliper,			
Hand tools	Micrometer etc.	10	3	7
	PC5. set job on different types of vices.	10	3	7
	Sub total	50	15	35
RSC/N4703 (CPC/N5804)Study	PC1.Study the Two Plate Injection Mould & Three Plate Injection Mould	20	6	14
of Types of Plastics Mould	PC2.Study the Mould Feed System, Types of Gate	10	3	7
	PC3.Study the Different types of cooling System	10	3	7
	PC4.Study the Different ejection system of Mould.	10	3	7
	Sub total	50	15	35
RSC/N4704	PC1. Set the work piece & Set the cutting Tools	10	2	8
(CPC/N5805): Machining Practice	PC2. Operate the Lathe Machine & to perform different operation	10	2	8
on Conventional &	PC3. Operate CNC Lathe	10	2	8
CNC Machines	PC4. Set the work piece & Set the cutting Tools	10	2	8
	PC5. Operate the Milling Machine & to perform different operation	10	2	8
	PC6. operate CNC Milling machine to perform different operations	10	2	8
	PC7. Grind the Mould Plates & Inserts using Surface Grinding machine	10	2	8
	PC8. Operate the Cylindrical Grinding & to perform different operation	10	2	8
	PC9. Perform Grinding on Guide Pillar & Bush	6.5	1.5	5
	Sub total	86.5	17.5	69
RSC/N4705	PC1.Polish the core and cavity	50	15	35
(CPC/N5806): To	PC2.Polish the mating parts of mould	20	5	15
Study about mould	PC3.Identify the mould parts	20	5	15
polishing & mould	PC4.Assemble the mould independently	20	5	15
assembly	Sub total	110	30	80
RSC/N 4203 (CPC/ N 7014)	PC1. Follow appropriate communication etiquette while working.	2	1	1
Effective working with others	PC2. Display active listening skills while interacting with others at work	2	1	1
	PC3. Demonstrate responsible and disciplined behaviors at the workplace	2	1	1
	PC4. Accurately receive information and instructions from the supervisor and	1.5	0.5	1







		T	1	1
	fellow workers, getting clarification			
	where required.			
	PC5. Accurately pass on information to authorized persons who require it and within agreed timescale and confirm its receipt	1.5	0.5	1
	PC6. Display helpful behavior by assisting others in performing tasks in a positive manner, where required and possible	1.5	0.5	1
	PC7. Consult with and assist others to maximize effectiveness and efficiency in carrying out tasks	1.5	0.5	1
	PC8. Escalate grievances and problems to appropriate authority as per procedure to resolve them and avoid conflict.	1.5	0.5	1
	Sub total	13.5	5.5	8
RSC/N4706	PC1.Set the Work Piece	20	2.5	17.5
(CPC/N 5808)	PC2.Set the Tools & Tool Offset Calculation	20	2.5	17.5
Understand How	PC3.Graphic Run of CNC Tool Path Programme	20	2.5	17.5
to Operate CNC	PC4.Dry Run of Machine Tool	20	2.5	17.5
Lathe& CNC	PC5.Run the programme in Full sequence	20	2.5	17.5
Milling Machine,	PC6.Perform different operations on machine	18	2.5	15.5
Programming of	Sub total			
CNC Lathe, Milling		118	15	103
machine				
RSC/N4708	PC1.Set the Work Piece	10	2.5	7.5
(CPC/N 5809)	PC2.Set the Tools & Tool Offset Calculation	10	2.5	7.5
Understand How	PC3.Calculate Spark Gap	10	2	8
to Operate EDM	PC4.Dial the both Electrode and job	10	2	8
Machine	PC5.Run the programme in Full sequence	10	2	8
	PC6. Perform different operations on machine	10	2	8
	Sub total	60	13	47
RSC/N4504	PC1. Fill and process mandated forms for			
(CPC/N0219)	receiving, processing, or tracking data,			
Basics of computer	enter data from source documents in	4	2	2
and data entry in	to Computer application having MS			
MS OFFICE/office	OFFICE software			
Open source suite	PC2. Verify data entered with source			
Software	documents, checks for compliance and corrects all typographical errors and missing or repeated data.	4	2	2
	PC3. Maintain files of source documents or other information related to data	4	3	1







PC4	entered. Update database information to reflect			
	most current source information	4	3	1
PC5	Assist in the filing and storage of			
	security and back up data files	4	3	1
PC6	Respond to requests for information and	2	1	1
	access relevant files			
Sub	total	22	14	8
Tota	ı	600	150	450