

CURRICULUM

FOR THE TRADE OF

**RUBBER COMPRESSION
MOULDING TECHNICIAN**

UNDER

APPRENTICESHIP TRAINING SCHEME (ATS)

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BACKGROUND

- **Apprenticeship Training Scheme under Apprentice Act 1961**

The Apprentices Act, 1961 was enacted with the objective of regulating the programme of training of apprentices in the industry by utilizing the facilities available therein for imparting on-the-job training. The Act makes it obligatory for employers in specified industries to engage apprentices in designated trades to impart Apprenticeship Training on the job in industry to school leavers and person having National Trade Certificate (ITI pass-outs) issued by National Council for Vocational Training (NCVT) to develop skilled manpower for the industry. There are four categories of apprentices namely; **trade apprentice, graduate, technician and technician (vocational) apprentices.**

Qualifications and period of apprenticeship training of **trade apprentices** vary from trade to trade. The apprenticeship training for trade apprentices consists of basic training followed by practical training. At the end of the training, the apprentices are required to appear in a trade test conducted by NCVT and those successful in the trade tests are awarded the National Apprenticeship Certificate.

The period of apprenticeship training for graduate (engineers), technician (diploma holders) and technician (vocational) apprentices is one year. Certificates are awarded on completion of training by the Department of Education, Ministry of Human Resource Development.

- **Changes in Industrial Scenario**

Recently we have seen huge changes in the Indian industry. The Indian Industry registered an impressive growth during the last decade and half. The number of industries in India have increased manifold in the last fifteen years especially in services and manufacturing sectors. It has been realized that India would become a prosperous and a modern state by raising skill levels, including by engaging a larger proportion of apprentices, will be critical to success; as will stronger collaboration between industry and the trainees to ensure the supply of skilled workforce and drive development through employment. Various initiatives to buildup an adequate infrastructure for rapid industrialization and improve the industrial scenario in India have been taken.

- **Reformation**

The Apprentices Act, 1961 has been amended and brought into effect from 22nd December, 2014 to make it more responsive to industry and youth. Key amendments are as given below:

- Prescription of number of apprentices to be engaged at establishment level instead of trade-wise.
- Establishment can also engage apprentices in optional trades which are not designated, with the discretion of entry level qualification and syllabus.
- Scope has been extended also to non-engineering occupations.
- Establishments have been permitted to outsource basic training in an institute of their choice.
- The burden of compliance on industry has been reduced significantly.

[Please do not make any changes in the background content]

RATIONALE

Need for Apprenticeship in trade for Rubber Compression Moulding Technician

1. The greater degree of relevance of the training with latest advancements of the industry will enhance the employability opportunities.
2. Ability to use latest tool & equipments and their different techniques.
3. Acquire knowledge of Compression Moulding Operations.
4. Ability to select and use appropriate tools and equipment for Compression Moulding.
5. Ability to understand the factors that influence Compression Moulding.
6. Ability to identify defects related to Compression Moulding.
7. Ability to conduct activities related to Compression Moulding Machine Preparation.
8. Ability to perform Compression Moulding Activity.
9. Ability to maintain Compression Moulding shop 5S.
10. Exposure to regulations, use of work equipment, control of substances hazardous to health.
11. Ability to maintain equipment/tools used in Compression Moulding.
12. Ability to manage supervisor and co-workers.
13. Exposure to reporting and documentation related to Compression Moulding.
14. Able to communicate and behave in a professional manner when dealing with supervisor and co-workers.
15. Ability to escalate problem to appropriate level at right time.

JOB ROLE: Description

A Rubber Compression Moulding Technician will be responsible for doing Compression Moulding. He should be able to do all preparatory activities, prior to Compression Moulding. He should be able to maintain the Compression Moulding Machine in good condition. He should be well versed with all the 5S techniques to keep shop floor and work place clean & tidy. He should be able to identify defects of Compression moulded part, so that no rejection should occur in Compression moulding. He should be able to identify defects generated during Compression moulding process and should be able to rectify the issues which are causing defects. He should be able to do documentation as per organisational procedure. He should be well versed with Organisational hierarchy should know how to escalate issues to appropriate level.

He should be able to plan and organize assigned work and detect & resolve issues during work execution. He should be able to demonstrate possible solutions for the issues arising during day to day work and agree tasks within the team. He should be able to communicate with required clarity and understand technical English. He should be sensitive to environment, self-learning and productive.

GENERAL INFORMATION

- 1. Name of the Trade** : RUBBER COMPRESSION MOULDING TECHNICIAN

- 2. Duration of Apprenticeship Training (Basic Training & Practical Training)** : 350Hrs +40Hrs= 390 Hrs & 1440Hrs

- 3. Duration of Basic Training** : Block –I: 350 Hrs + 40 Hrs Employability & Entrepreneurship
- Total duration of Basic Training** : **390 Hrs** (Additionally, 20 Hrs Digital Literacy inputs given in online mode)

- 4. Duration of Practical Training (On -job Training)** : Block–II: 1440 HRS, i.e. 36 weeks or 9 months

- 5. Entry Qualification** : Passed 10th class

- 6. Selection of Apprentices** : The apprentices will be selected as per Apprenticeship Act amended time to time.

- 7. Rebate for ITI passed trainees** :N.A.

Note: Industry may impart training as per above time schedule, however this is not fixed. The industry may adjust the duration of training considering the fact that all the components under the syllabus must be covered. However the flexibility should be given keeping in view that no safety aspect is compromised and duration of industry training to be remained as 1 year.

COURSE STRUCTURE

Training duration details: -

Time (in hours) Recommended Duration	390 Hrs	1440hrs 36 weeks (9 months)
Basic Training	Block-I	-----
Practical Training (On - job training)	----	Block – II

Components of Training	Months											
↓	1	2	3	4	5	6	7	8	9	10	11	12
Basic Training Block – I												
Practical Training Block – II												

CURRICULUM

BASIC TRAINING

(BLOCK – I)

DURATION: 350 HRS + 40 Hrs (Employability and Entrepreneurship Training) = 390 hrs (Additionally, 20 Hrs Digital Literacy inputs given in online mode)

Total duration of Basic Training : 390 Hrs

GENERAL INFORMATION

- 1) **Name of the Trade** : **RUBBER COMPRESSION MOULDING TECHNICIAN : JUNIOR RUBBER TECHNICIAN**
 - 2) **Hours of Instruction** : 350 Hrs+40 Hrs= 390Hrs.
 - 3) **Batch size** : 30
 - 4) **Power Norms** : 6 KW for Workshop
 - 5) **Space Norms** : (10 x20=200) sq feet
 - 6) **Examination** : The internal assessment will be held on the completion Of Block-I.
- 1) **Instructor Qualification** : Trainer Prerequisites for Job role: **JUNIOR RUBBER TECHNICIAN**

Sr. No.	Area	Details
1	Job Description	To deliver accredited training service, mapping to the curriculum detailed above, in accordance with the Qualification Pack "RSC/Q0831 Version 1.0".
2	Personal Attributes	Aptitude for conducting training, and pre/ post work to ensure competent, employable candidates at the end of the training. Strong communication skills, interpersonal skills, ability to work as part of a team; a passion for quality and for developing others; well- organised and focused, eager to learn and keep oneself updated with the latest in the mentioned field.
3	Minimum Educational Qualifications	Any Graduate preferably in rubber or polymer
4a	Domain Certification	Certified for Job Role: "Junior Rubber Technician" mapped to QP: "RSC/Q0831". Minimum accepted score as per RSDC guidelines is 80%.
4b	Platform Certification	Recommended that the Trainer is certified for the Job Role: "Trainer", mapped to the Qualification Pack: "SSC/ Q1402". Minimum accepted score as per RSDC guidelines is 80%.
5	Experience	5+ years of relevant work-experience, above supervisor level

Basic Training: Junior Rubber Technician RSC/Q0831

MODEL CURRICULUM

This program is aimed at training candidates for the job of a “Junior Rubber Technician”, in the “Rubber Industry” Sector/Industry and aims at building the following key competencies amongst the learner.

Program Name	Junior Rubber Technician		
Qualification Pack Name & Reference ID.	RSC/Q0831, v1.0		
Version No.	1.0	Version Update Date	Not Applicable
Pre-requisites to Training	10th Standard passed, preferably		
Training Outcomes	After completing this programme, participants will be able to: <ul style="list-style-type: none">• Assisting the operator in material handling in weighing• Assisting the operator in production process and equipment handling• Assisting the operator in post-production process		

Sr. No.	Module	Key Learning Outcomes	Equipment Required
1	Global and National Status of Rubber Industry Theory 2 hours Practical 0 hours Corresponding NOS Bridge Module	<ul style="list-style-type: none"> • Understand the global rubber industry • Understand the rubber industry in India • Know the various advantages of rubber 	Laptop, white board, marker, projector
2	Machines Used in Rubber Product Manufacturing Theory 20 hours Practical 45 hours Corresponding NOS Bridge Module	<ul style="list-style-type: none"> • Understand different machineries used in rubber processing • Identify various machines used in rubber processing • Understand and identify mixing mills in rubber processing • Understand mixing mill operation • Identify and understand internal mixers • Understand functioning of internal mixers and mixing methods • Understand pre-mixer and post-mixer area Equipment • Understand extruders and types of extruders • Understand combination of extruders and major parts of extruders • Perform and understand extruder operation • Understand calendar machines and calendaring process • Understand classification of calendar and major parts of calendar • Perform and understand extruder operation • Understand different equipment of Latex based industry • Identify and understand equipment like compounding mixer, drying oven, leaching tank, dipping tank, dehydration unit, vulcanising unit etc. 	Power point presentation, LCD projector, Computer, LCD screen, white board, marker, pointer, Hydraulic rubber moulding press, mixing mills, extruders, calendars, ball mills, compounding mixers, dipping tank, drying oven, leaching tank, vulcanisation, curing press

Sr. No.	Module	Key Learning Outcomes	Equipment Required
3	Maintenance and Upkeep of Machinery Theory 30 hours Practical 50 hours Corresponding NOS Bridge Module	<ul style="list-style-type: none"> • Understand importance of preservation and protection of machines and equipment • Understand and perform maintenance of machinery and equipment • Understand objective of machine/equipment maintenance • Identify various types of maintenance • Perform maintenance type like Run To Failure (RTF), Preventive Maintenance (PM), Corrective Maintenance (CM) etc. • Familiarise with various tools (hand tools etc.) used in rubber processing • Identify and understand equipment like compounding mixer, drying oven, leaching tank, dipping tank, dehydration unit, vulcanising unit, and curing press. • Identify various hazards and risks involved in maintenance activity • Act on preventive measure to avoid hazards and risks 	Same as above
4	Assisting in Material Handling Theory 36 hours Practical 50 hours Corresponding NOS RSC / N 3101	<ul style="list-style-type: none"> • Assist raw material handling Operators to identify various raw materials used in the rubber industry (polymer, filler, processing aids, curatives, special additives etc.) • Assist raw material handling operators in the raw material storage area with respect identification, traceability including housekeeping & safety as per SOP. • Assist Lab Technician for sampling of raw material from the storage area as per SOP. • Assist raw material weighing operators for preparation of mix as per SOP. • Assist Mixing Operators for mixing of compounds – master batch, final as per SOP • Assist Lab Technician for collection of compounds with proper identification as per SOP. • Assist mixing operators for identifying different compounds in the mixing area • Assist Material Handling Operators for storage of compounds with proper identification in the storage area as per SOP. • Assist Mixing Operator for maintaining records for traceability. • Awareness on different safety devices (safety bar, safety guard etc.) attached with different 	Power point presentation, LCD projector, Computer, LCD screen, white board, marker, pointer, crane, conveyor, industrial truck, turn table, dock leveller, pallets, skids, tote pans, cartons, shrink wraps, pallet rack, drive through rack,

Sr. No.	Module	Key Learning Outcomes	Equipment Required
		<ul style="list-style-type: none"> • Rubber Processing Machineries. • Awareness on Material Safety Data Sheet(MSDS) • Assist to carry out disposal of waste and leftover tested material safely as per SOP 	
5	<p>Assisting the operator in production process and equipment handling Theory 25 Hours Practical 20 hours Corresponding NOS RSC / N 3102</p>	<ul style="list-style-type: none"> • Assist in identifying different material/compound and component required for different rubber processing (mixing, dipping, extrusion, calendaring, component preparation, building, moulding/curing). • Assist in raw material handling operators in the raw material storage area with respect to identification, traceability including housekeeping & safety as SOP. • Assist Lab Technician for sampling of raw material from the storage area, collection of compounds and components as per SOP. • Assist raw material weighing operators for preparation of mix as per SOP. • Assist Mixing Operators for mixing of compounds – master batch, final as per SOP. • Assist extrusion operator for extrusion process (pre, during and post) • Assist fabric dipping operation • Assist calendaring operation • Assist component preparation • Asst. Building operation • Assist Curing/moulding operation • Assist Finishing operation • Assist Material Handling Operators for storage of compounds with proper identification in the storage area as per SOP. • Assist Operators of Mixing, Extrusion, Calendaring, dipping, stock preparation, building & curing/moulding area for maintaining records. • Awareness on different safety devices (safety bar, safety guard etc.) attached with different Rubber Processing Machineries. • Carry out disposal of waste and left over tested material safely as per SOP 	calendars, ball mills, compounding mixers, dipping tank, drying oven, leaching tank, vulcanisation

6	Assisting the operator in post-production process Theory 15 Hours Practical 20 hours Corresponding NOS RSC / N 3103	<ul style="list-style-type: none"> Collection of components and check for building Prepare the machineries Building the products, Green Product inspection Curing/Moulding Finishing & finished product inspection. Sampling and Testing Awareness on different safety devices (safety bar, safety guard etc) attached with different Rubber Processing Machineries. Carry out disposal of waste and left over tested material safely as per SOP 	Same as above
7	Standards and Safety 05 Hours Practical 10 hours Corresponding NOS RSC/N3103	<ul style="list-style-type: none"> Collection of components and check for building Prepare the machineries Build the products, Inspect Green Product Perform Curing/Moulding Inspect Finishing & finished product Perform Sampling and Testing Identify Modern methods of quality management systems (ISO-9000, TS-16949, ISO-14001, OHSAS-18001) Identify and Implement 5S 	Power point presentation, LCD projector, Computer, LCD screen, white board, marker, pointer, reporting formats, registers, files,
8	IT Skills Theory 07 hours Practical 15 hours Corresponding NOS Bridge Module	<ul style="list-style-type: none"> Understand parts of a computer Understand basics of computer and concept of motherboard Use Microsoft Word Use Microsoft PowerPoint Use Microsoft Excel Understand Internet and its uses 	Power point presentation, LCD projector, Computer, LCD screen, white board, marker, pointer, Microsoft Office, Internet Connectivity
	Total Duration Theory Duration 140:00 Practical Duration 210:00	Unique Equipment Required: Laptop, white board, marker, projector, Power point presentation, Hydraulic rubber moulding press, mixing mills, extruders, calendars, ball mills, compounding mixers, dipping tank, drying oven, leaching tank, vulcanization Oven, curing press, crane, conveyor, industrial truck, turn table, dock leveller, pallets, skids, tote pans, cartons, shrink wraps, pallet rack, drive through rack, reporting formats, registers, files.	

Grand Total Course Duration: 350 Hours, 0 Minute

ASSESSMENT CRITERIA

Assessment Criteria	
Job Role	Junior Rubber Technician
Qualification Pack	RSC/Q0831, v1.0
Sector Skill Council	Rubber Sector Skill Council

Sr. No.	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 lay down proportion of marks for Theory and Skills Practical for each PC.
2	The assessment for the theory part will be based on knowledge bank of questions created by the SSC
3	Individual assessment agencies will create theory question papers for candidates at every examination/training centre. (as per assessment criteria below)
4	Individual assessment agencies will create practical tests for skill evaluation for candidates at every examination/training centre. (as per assessment criteria below)
5	To pass the Qualification Pack, every candidate should score a minimum 50% of aggregate marks to successfully clear the assessment
6	In case of successfully passing only certain number of NOSs, the candidate is eligible to take subsequent assessment on the balance NOSs to pass the Qualification Pack.

Assessment outcomes	Assessment Criteria for outcomes	Marks Allocation			
		Total Mark (100+100+100 = 300)	Out Of	Theory	Skills Practical
1. RSC / N 3101 Assisting the operator in material handling in weighing	PC1. Assist raw material handling Operators to identify various raw materials used in the rubber industry (polymer, filler, processing aids, curatives, special additives etc.)	100	7	5	2
	PC2. Assist raw material handling operators in the raw material storage area with respect identification, traceability including housekeeping & safety as per SOP.		7	5	2
	PC3. Assist Lab Technician for sampling of raw material from the storage area as per SOP.		8	5	3
	PC4. Assist raw material weighing operators for preparation of mix as per SOP.		8	5	3
	PC5. Assist Mixing Operators for mixing of compounds – master batch, final as per SOP		10	5	5
	PC6. Assist Lab Technician for collection of compounds with proper identification as per SOP.		10	5	5
	PC7. Assist mixing operators for identifying different compounds in the mixing area		10	5	5
	PC8. Assist Material Handling Operators for storage of compounds with proper identification in the storage area as per SOP.		10	5	5
	PC9. Assist Mixing Operator for maintaining records for traceability.		10	5	5

	Awareness on different safety devices (safety bar, safety guard etc) attached with different Rubber Processing Machineries. Awareness on Material Safety Data Sheet (MSDS)		10	5	5
	PC10. Assist to carry out disposal of waste and left over tested material safely as per SOP		10	5	5
	Sub Total		100	55	45
2. RSC / N 3102 Assisting the operator in production process and equipment handling	PC1. Assist in identifying different material/compound and component required for different rubber processing (mixing, dipping, extrusion, calendaring, component preparation, building, moulding/curing).	100	5	5	0
	PC2. Assist in raw material handling operators in the raw material storage area with respect to identification, traceability including housekeeping & safety as SOP.		5	5	0
	PC3. Assist Lab Technician for sampling of raw material from the storage area, collection of compounds and components as per SOP.		5	5	0
	PC4. Assist raw material weighing operators for preparation of mix as per SOP.		5	5	0
	PC5. Assist Mixing Operators for mixing of compounds – master batch, final as per SOP.		10	5	5
	PC6. Assist extrusion operator for extrusion process (pre, during and post)		10	5	5

	PC7.Assist fabric dipping operation		5	5	0
	PC8.Assist calendering operation		5	5	0
	PC9.Assist component preparation		5	5	0
	PC10.Asst. Building operation		10	5	5
	PC11.Assist Curing/moulding operation		10	5	5
	PC12.Assist Finishing operation		5	5	0
	PC13.Assist Material Handling Operators for storage of compounds with proper identification in the storage area as per SOP.		5	5	0
	PC14.Assist Operators of Mixing, Extrusion, Calendering, dipping, stock preparation, building & curing/moulding area for maintaining records.		5	5	0
	Awareness on different safety devices (safety bar, safety guard etc) attached with different Rubber Processing Machineries.		5	5	0
	PC15. Carry out disposal of waste and left over tested material safely as per SOP		5	5	0
	Sub Total		100	80	20
3. RSC/N 3103 Assisting the operator in post production process	PC1. Collection of components and check for building	100	10	5	5
	PC2. Prepare the machineries		10	5	5
	PC3. Building the products,		10	5	5

	PC4. Green Product inspection		10	5	5
	PC5. Curing/Moulding		15	5	10
	PC6. Finishing & finished product inspection.		10	5	5
	PC7. Sampling and Testing		15	5	10
	Awareness on different safety devices (safety bar, safety guard etc) attached with different Rubber Processing Machineries.		10	5	5
	PC8. Carry out disposal of waste and left over tested material safely as per SOP		10	5	5
	Sub Total		100	50	50
	Grand Total	300	300	185	115
	<u>Percentage Weightage:</u>			20%	80%
	<u>Minimum Pass % to qualify (aggregate):</u>			50%	

EQUIPMENT LIST

Junior Rubber Technician – RSC/Q0831

S. No.	SSC	QP Code	Name of the QP	NSQF Level	Equipment Name	Min. no. Equipment req. (Per batch of 20 trainees)	Unit	Is this a mandatory Equipment to be available at the training Center (yes/no)	Dimension / Specification /Description / Any Other Remarks
1	RSDC	RSC/0831	Junior Rubber Technician	3	Lab Curing Press	1	Nos.	Yes	
2	RSDC	RSC/0831	Junior Rubber Technician	3	Lab Mill	1	Nos.	Yes	
3	RSDC	RSC/0831	Junior Rubber Technician	3	Tensile Tester	1	Nos.	No	
4	RSDC	RSC/0831	Junior Rubber Technician	3	Dispersion Checker	1	Nos.	Yes	
5	RSDC	RSC/0831	Junior Rubber Technician	3	Rebound Tester	1	Nos.	Yes	
6	RSDC	RSC/0831	Junior Rubber Technician	3	Abrasion Tester	1	Nos.	Yes	
7	RSDC	RSC/0831	Junior Rubber Technician	3	Hardness Tester	2	Nos.	Yes	
8	RSDC	RSC/0831	Junior Rubber Technician	3	Ozone Tester	1	Nos.	No	
9	RSDC	RSC/0831	Junior Rubber Technician	3	Oven, Furnace	1	Nos.	Yes	
10	RSDC	RSC/0831	Junior Rubber Technician	3	Adhesion Tester -For Fabric Reinforcement	2	Nos.	Yes	
11	RSDC	RSC/0831	Junior Rubber Technician	3	Gravity Tester	1	Nos.	Yes	
12	RSDC	RSC/0831	Junior Rubber Technician	3	Melting Point Tester	1	Nos.	Yes	
13	RSDC	RSC/0831	Junior Rubber Technician	3	Ash Content Tester	1	Nos.	Yes	
14	RSDC	RSC/0831	Junior Rubber Technician	3	Iodine Content Tester	1	Nos.	Yes	
15	RSDC	RSC/0831	Junior Rubber Technician	3	Moisture Check Tester	1	Nos.	Yes	
16	RSDC	RSC/0831	Junior Rubber Technician	3	PH Tester	1	Nos.	Yes	
17	RSDC	RSC/0831	Junior Rubber Technician	3	Mooney Viscometer	1	Nos.	No	
18	RSDC	RSC/0831	Junior Rubber Technician	3	Rheometer	1	Nos.	No	

EMPLOYABILITY AND ENTREPRENEURSHIP SKILLS

MODEL CURRICULUM

Program Name	Employability and Entrepreneurship Skills		
Qualification Pack Name & Reference ID	ALL		
Version No.	1.0	Version Update Date	
Pre-requisites to Training	NA		
Training Outcomes	<p>After completing this programme, participants will be able to:</p> <ul style="list-style-type: none"> • Identify personal strengths and value systems: safe work habits, achievement motivation, time management, anger management, stress management. • Recall important tenets of digital literacy: fundamentals of computer terminology, parts of a computer and a keyboard, main applications of MSOffice. • Discuss the essentials of matters pertaining to money: saving money, bank accounts, types of costs, investment options, insurance products, taxes. • Prepare for employment and self-employment: preparing for an interview, effective resume writing, basic workplace terminology. • Illustrate the basics of entrepreneurship and identify new business opportunities: effective leadership, effective speaking, effective listening, problem solving, business opportunities, types of entrepreneurs, entrepreneurial process and ecosystem, resilient entrepreneurs 		

Sr. No.	Module	Key Learning Outcomes	Equipment Required
1	<p>Introduction</p> <p>Theory Duration (hh:mm) 00:30</p> <p>Practical Duration (hh:mm) 00:00</p>	<ul style="list-style-type: none"> Recognize the importance of general discipline in the class room (dos and don'ts) List expectations from the program Outline the objectives of the program 	Laptop, white board, marker, projector
2	<p>Personal Strengths and Value Systems</p> <p>Theory Duration (hh:mm) 04:00</p> <p>Practical Duration (hh:mm) 04:00</p>	<ul style="list-style-type: none"> Identify common health issues and tips to prevent them Discuss critical safety habits to be followed by employees Understand motivation with the help of Maslow's Hierarchy of Needs List the characteristics of entrepreneurs with achievement motivation Discuss how to maintain a positive attitude Discuss the role of attitude in self-analysis List your strengths and weaknesses Describe the importance of honesty in entrepreneurs List the characteristics of highly creative and innovative people Discuss the benefits of time management List the traits of effective time managers Apply effective time management techniques Apply tips for anger management and stress management 	Workbook exercises on health standards, Laptop, activity on strengths and weaknesses, white board, marker, projector
3	<p>Digital Literacy: A Recap</p> <p>Theory Duration (hh:mm) 01:00</p> <p>Practical Duration (hh:mm) 03:00</p>	<ul style="list-style-type: none"> Identify the basic parts of a computer and keyboard Recall basic computer terminology Identify the functions of basic computer keys Discuss the main applications of MS Office Discuss the benefits of Microsoft Outlook Identify the different types of e-commerce Explain the benefits of e-commerce for retailers and customers 	Laptop, white board, marker, projector, CPU, Monitor, keyboard, mouse, MS Office software, E-Wallet softwares such as PayTM, SBI buddy etc.

		<ul style="list-style-type: none"> • Discuss how the Digital India campaign will help boost e-commerce in India • Describe how you will sell a product or service on an e-commerce platform • Elaborate on the need for digital transactions • Identify the modes of digital transactions • Explain the uses of digital transactions 	
4	<p>Money Matters</p> <p>Theory Duration (hh:mm) 06:00</p> <p>Practical Duration (hh:mm) 02:00</p>	<ul style="list-style-type: none"> • Recognize the importance and benefits of saving money • Discuss the main types of bank accounts • Illustrate the process of opening a bank account • Differentiate between fixed and variable costs • Describe the main types of investment options • Identify the different types of insurance products and types of taxes • Discuss the uses of online banking • Describe the main types of electronic funds transfers 	Laptop, white board, marker, projector, Passport, Driving License, Voter ID card, PAN card, Aadhaar card, sample KYC document, bank opening form (can be downloaded from the Internet)
5	<p>Preparing for Employment and Self-Employment</p> <p>Theory Duration (hh:mm) 02:00</p> <p>Practical Duration (hh:mm) 04:00</p>	<ul style="list-style-type: none"> • Follow the steps to prepare for an interview • Create an effective Resume • Identify the most frequently asked interview questions • Discuss how to answer the most frequently asked interview questions • Identify basic work place terminology 	Laptop, white board, marker, projector, sample CVs, Mock interviews, role plays, role play briefs, FAQs, quiz on basic workplace technologies.
6	<p>Entrepreneurship</p> <p>Theory Duration (hh:mm) 04:30</p> <p>Practical Duration (hh:mm) 09:00</p>	<ul style="list-style-type: none"> • Discuss the concept and significance of entrepreneurship and the characteristics of an entrepreneur • List the qualities of an effective leader and the benefits of effective leadership • List the traits of an effective team • Apply techniques of effective listening • Apply techniques of effective speaking • Solve problems by identifying important problem solving traits • Discuss how to identify new business opportunities within your business 	Laptop, white board, marker, projector, SWOT activity: pen and paper individual exercise, charts, colored pens, Group Activity: poster making on entrepreneurship ecosystem. Activity: SMART Goal writing

		<ul style="list-style-type: none"> • Describe the different types of entrepreneurs • State the characteristics of entrepreneurs • Recall entrepreneur success stories • Follow the entrepreneurial process and explain the entrepreneurship ecosystem • Recognize the purpose of the Make in India campaign • Identify key schemes to promote entrepreneurs • Define the relationship between entrepreneurship and risk appetite and entrepreneurship and resilience • Discuss the characteristics of a resilient entrepreneur • Identify techniques of dealing effectively with failure 	
	<p>Total Duration</p> <p>Theory Duration 18:00</p> <p>Practical Duration 22:00</p>	<p>Unique Equipment Required: Laptop, white board, marker, projector</p>	

Grand Total Course Duration: **40 Hours, 0 Minutes**

(This syllabus/ curriculum has been approved by [National Skill Development Corporation](#))

**PRACTICAL TRAINING (ON-JOB TRAINING)
(BLOCK – II)**

DURATION: 1440 Hrs

GENERAL INFORMATION

- 1) **Name of the Trade** : **RUBBER COMPRESSION MOULDING TECHNICIAN :**
Compression Moulding Operator
- 2) **Duration of On-Job Training** : **1440 hrs.**
- 3) **Batch size** : 30 (recommended)
- 4) **Examination** : i) The internal assessment will be held on completion of
The block
ii) Rubber Sector Skill Council (RSDC) will conduct exam
at the end of Apprenticeship Training.
- 5) **Instructor Qualification** :

Trainer Prerequisites for Job role: **“Compression Moulding”**

Sr. No.	Area	Details
1	Job Description	To deliver accredited training service, mapping to the curriculum detailed above, in accordance with the Qualification Pack “RSC/Q0205 Version 1.0”.
2	Personal Attributes	Aptitude for conducting training, and pre/ post work to ensure competent, employable candidates at the end of the training. Strong communication skills interpersonal skills, ability to work as part of a team; a passion for quality and for developing others; well- organised and focused, eager to learn and keep oneself updated with the latest in the mentioned field.
3	Minimum Educational Qualifications	Any Graduate preferably in rubber or polymer
4a	Domain Certification	Certified for Job Role: “Injection Moulding Operator” mapped to QP: “RSC/Q0205”. Minimum accepted score as per RSDC guidelines is 80%.
4b	Platform Certification	Recommended that the Trainer is certified for the Job Role: “Trainer”, mapped to the Qualification Pack: “SSC/ Q1402”. Minimum accepted score as per RSDC guidelines is 80%.
5	Experience	5+ years of relevant work-experience, above supervisor level
6	Infrastructure for On-Job Training	As per Tools & Equipment required for On-Job Training

BROAD SKILL COMPONENT
BROAD SKILL COMPONENT TO BE COVERED DURING ON-JOB TRAINING

BLOCK – II

1. Preparation of Compression Moulding machine for operation.
2. Usage of all the tools & equipment for Compression Moulding.
3. Inspection of Compound to be used before Compression Moulding.
4. Types of Compression Moulding Machine Parameters & their effect on Moulding.
5. Parameter feeding in Control Panel.
6. Parameter changing in Control Panel.
7. Press & Mould pre-heating before Compression moulding.
8. Minor Machine (Compression Moulding) Maintenance.
9. Mould Changing Crane Operation.
10. Mould changing in Compression Moulding Machine.
11. Compression Mould maintenance.
12. Compression moulding Defect Identification.
13. Selection & Application of Countermeasure for Compression Defects.
14. Application of Problem solving techniques, such as – Why-Why Analysis & Fish Bone Diagram.
15. Waste Compression moulded parts Disposal
16. 5S techniques application at workplace.
17. Reporting as per organisation's hierarchy.
18. Using Fire Extinguishers
19. Using Organisation's Emergency procedure.
20. Doing basic First Aid.
21. Communicating with Co-workers and resolving work conflicts

Compression Moulding Operator -RSC/Q0205

Model Curriculum

Key Learning Outcomes:

Program Name	Compression Moulding Operator		
Qualification Pack Name & Reference ID.	RSC/Q0205, v1.0		
Version No.	1.0	Version Update Date	17/05/2017
Pre-requisites to Training	10th Standard passed, preferably		
Training Outcomes	<p>After completing this programme, participants will be able to:</p> <ul style="list-style-type: none"> • Prepare compression moulding machine: Cleaning of moulding machine, loading desired mould, Spraying Release agent, Setting Machine Parameter as per work instruction, • Perform compression moulding operation: Visual inspection of Compound, Feeding compound in moulding machine, placing Serial no/PR strip in mould, verification of machine parameter during cycle, • Undertake post compression moulding activities: Unloading moulded part from moulding machine, Moulded part Inspection, Flashes and Vent trimming, Sample submission for lab testing • Maintain Compression Moulding Shop as per 5S guideline: Sorting of material available at workplace, Placing all things in order, Cleaning of area, making standard for cleaning and things to keep, Sustaining the level of 5S achieved, Identifying cleaning equipment for cleaning, using appropriate PPE while cleaning • Check quality of moulded parts and rectify the defects: Visual inspection and key dimension measurement, Identify moulding defects, take corrective action for eliminating defects • Report and document about Compression moulding: Documenting and Reporting various information like – Production, Inspection, machine status • Escalate Problem to right authority: Know the hierarchy of organisation, Know the immediate Supervisor, Escalation of matters which are beyond job role • Develop entrepreneurship qualities: Identifying business opportunity, Creating business plan, arranging financial resources for funding, Hiring Suitable manpower, making process improvements for increasing Profitability 		

Sr. No.	Module	Key Learning Outcomes	Equipment Required
Week 1	<p>Introduction and Orientation (Session-1)</p> <p>Theory Duration (hh:mm) 2:00</p> <p>Practical Duration (hh:mm) 00:00</p> <p>Corresponding NOS Code Bridge Module</p>	<p>Trainee will be able to do following -</p> <ul style="list-style-type: none"> • Importance of Rubber Sector • Role and responsibility of Compression Moulding Operator 	<p>Laptop, White board+marker, projector, Black Board+Chalk, Participant Handbook,</p>
Week 2	<p>Prepare Compression Moulding Machine (Session-1)</p> <p>Theory Duration (hh:mm) 30:00</p> <p>Practical Duration (hh:mm) 8:00</p> <p>Corresponding NOS Code RSC/N0501</p>	<p>Trainee will be able to do following -</p> <ul style="list-style-type: none"> • Explain construction of Compression Moulding Machine • Describe the details of Compression Moulding Machine parts • Prepare Machine for Compression Moulding • Demonstrate the cleaning process of Compression moulding machine • Demonstrate the required mould loading in machine • Demonstrate the mould cleaning after loading in machine • Describe the process of arranging Compound for Moulding • Define purpose of Release agent application in mould • Set parameters for the press (cycle time, temperature and ram pressure) , as per Company SOP • Apply the mould release agent appropriately as per SOP • Keep all the accessories like cleaning brush, mould release lever (made of brass or aluminum flat), mould release agent ready • Use lifting equipment such as forklift / Trolleys while lifting heavy materials such as moulds to avoid physical injury. • Ensure correct functioning of mould lifting/ ejection/ slide mechanism • Ensure that signage indicating hot surfaces is put up wherever necessary 	<p>Power point presentation, LCD projector, Computer, LCD screen, white board, marker, pointer. Hydraulic rubber moulding press of size 75 cm x 75 cm or higher with electric / steam heated platens and necessary tools and accessories, Safety equipment such as fire extinguishers, helmet, gloves, goggles etc., Digital thermometers, moulds, materials for moulding such as rubber mix, mould release agent, marker pencils etc.</p>

		<ul style="list-style-type: none"> Adhere to all safety norms (like wearing protective gloves, shoes) Comply with health, safety, environment guidelines, regulations in accordance with international / national standards or organizational SOP 	
Week 3	<p>Prepare Compression Moulding Machine (Session-2)</p> <p>Theory Duration (hh:mm) 0:00</p> <p>Practical Duration (hh:mm) 40:00</p> <p>Corresponding NOS Code RSC/N0501</p>	<p>Trainee will be able to do following -</p> <ul style="list-style-type: none"> Prepare Machine for Compression Moulding Demonstrate the cleaning process of Compression moulding machine Demonstrate the required mould loading in machine Demonstrate the mould cleaning after loading in machine Describe the process of arranging Compound for Moulding Demonstrate process of Release agent application in mould 	<p>Moulding press of size 75 cm x 75 cm or higher with electric / stem heated platens and necessary tools and accessories, Safety equipment such as fire extinguishers, helmet, gloves, goggles etc., Digital thermometers, moulds, materials for moulding such as rubber mix, mould release agent,</p>
Week 4	<p>Prepare Compression Moulding Machine (Session-3)</p> <p>Theory Duration (hh:mm) 0:00</p> <p>Practical Duration (hh:mm) 40:00</p> <p>Corresponding NOS Code RSC/N0501</p>	<p>Trainee will be able to do following -</p> <ul style="list-style-type: none"> To be able to do preparation required for doing Compression Moulding. To be able achieve target and meet deadlines while working. To be able to follow required Safety guidelines 	Same as above
Week 5	<p>Prepare Compression Moulding Machine (Session-4)</p> <p>Theory Duration (hh:mm) 0:00</p> <p>Practical Duration (hh:mm) 40:00</p> <p>Corresponding NOS Code RSC/N0501</p>	<p>Trainee will be able to do following -</p> <ul style="list-style-type: none"> To be able to do preparation required for doing Compression Moulding. To be able achieve target and meet deadlines while working. To be able to follow required Safety guidelines 	Same as above

Week 6	<p>Prepare Compression Moulding Machine (Session-5)</p> <p>Theory Duration (hh:mm) 0:00</p> <p>Practical Duration (hh:mm) 40:00</p> <p>Corresponding NOS Code RSC/N0501</p>	<p>Trainee will be able to do following -</p> <ul style="list-style-type: none"> To be able to do preparation required for doing Compression Moulding. To be able achieve target and meet deadlines while working. To be able to follow required Safety guidelines 	Same as above
Week 7	<p>Prepare Compression Moulding Machine (Session-6)</p> <p>Theory Duration (hh:mm) 0:00</p> <p>Practical Duration (hh:mm) 40:00</p> <p>Corresponding NOS Code RSC/N0501</p>	<p>Trainee will be able to do following -</p> <ul style="list-style-type: none"> To be able to do preparation required for doing Pneumatic Tyre Moulding. To be able achieve target and meet deadlines while working. To be able to follow required Safety guidelines 	Same as above
Week 8	<p>Prepare Compression Moulding Machine (Session-7)</p> <p>Theory Duration (hh:mm) 0:00</p> <p>Practical Duration (hh:mm) 40:00</p> <p>Corresponding NOS Code RSC/N0501</p>	<p>Trainee will be able to do following -</p> <ul style="list-style-type: none"> To be able to do preparation required for doing Pneumatic Tyre Moulding. To be able achieve target and meet deadlines while working. To be able to follow required Safety guidelines 	Same as above
Week 9	<p>Perform Compression Moulding Operation (Session-1)</p> <p>Theory Duration (hh:mm) 35:00</p> <p>Practical Duration (hh:mm) 5:00</p> <p>Corresponding NOS Code RSC/N0502</p>	<p>Trainee will be able to do following -</p> <ul style="list-style-type: none"> Handle the rubber compound to avoid contamination Load the identified material in the correct pattern as per SOP to minimize material overflow/ wastage/ excess flash Properly close the press and apply pressure uniformly Bump the press to ensure that air is eliminated Ensure that moulding pressure and temperature is maintained during the curing cycle 	Power point presentation, LCD projector, Computer, LCD screen, white board, marker, pointer. Hydraulic rubber moulding press of size 75 cm x 75 cm or higher with electric / stem heated platens and necessary tools and accessories,

		<ul style="list-style-type: none"> • Cure the product as per SOP • Ensure housekeeping/safety in the moulding area as per SOP • Ensure mould lifting/ ejection/ slide mechanism of the press are properly functioning • Adhere to all other safety norms (like wearing shoes, hand gloves, safety glasses) • Comply with health, safety, environment guidelines, regulations in accordance with international/national standards or organizational SOP 	Safety equipment such as fire extinguishers, helmet, gloves, goggles etc., Digital thermometers, moulds, materials for moulding such as rubber mix, mould release agent, marker pencils etc.
Week 9	<p>Perform Compression Moulding Operation (Session-2)</p> <p>Theory Duration (hh:mm) 0:00</p> <p>Practical Duration (hh:mm) 40:00</p> <p>Corresponding NOS Code RSC/N0502</p>	<p>Trainee will be able to do following -</p> <ul style="list-style-type: none"> • To be able to do Compression Moulding. • To be able achieve target and meet deadlines while working. • To be able to follow required Safety guidelines 	Hydraulic rubber moulding press of size 75 cm x 75 cm or higher with electric / stem heated platens and necessary tools and accessories, Safety equipment such as fire extinguishers, helmet, gloves, goggles etc., Digital thermometers, moulds, materials for moulding such as rubber mix, mould release agent, marker pencils etc.
Week 10	<p>Perform Compression Moulding Operation (Session-3)</p> <p>Theory Duration (hh:mm) 0:00</p> <p>Practical Duration (hh:mm) 40:00</p> <p>Corresponding NOS Code RSC/N0502</p>	<p>Trainee will be able to do following -</p> <ul style="list-style-type: none"> • To be able to do Compression Moulding. • To be able achieve target and meet deadlines while working. • To be able to follow required Safety guidelines 	Same as above
Week 11	<p>Perform Compression Moulding Operation (Session-4)</p> <p>Theory Duration (hh:mm) 0:00</p> <p>Practical Duration (hh:mm) 40:00</p> <p>Corresponding NOS Code RSC/N0502</p>	<p>Trainee will be able to do following -</p> <ul style="list-style-type: none"> • To be able to do Compression Moulding. • To be able achieve target and meet deadlines while working. • To be able to follow required Safety guidelines 	Same as above

Week 12	<p>Perform Compression Moulding Operation (Session-5)</p> <p>Theory Duration (hh:mm) 0:00</p> <p>Practical Duration (hh:mm) 40:00</p> <p>Corresponding NOS Code RSC/N0502</p>	<p>Trainee will be able to do following -</p> <ul style="list-style-type: none"> • To be able to do Compression Moulding. • To be able achieve target and meet deadlines while working. • To be able to follow required Safety guidelines 	Same as above
Week 13	<p>Perform Compression Moulding Operation (Session-6)</p> <p>Theory Duration (hh:mm) 0:00</p> <p>Practical Duration (hh:mm) 40:00</p> <p>Corresponding NOS Code RSC/N0502</p>	<p>Trainee will be able to do following -</p> <ul style="list-style-type: none"> • To be able to do Compression Moulding. • To be able achieve target and meet deadlines while working. • To be able to follow required Safety guidelines 	Same as above
Week 14	<p>Perform Compression Moulding Operation (Session-7)</p> <p>Theory Duration (hh:mm) 0:00</p> <p>Practical Duration (hh:mm) 40:00</p> <p>Corresponding NOS Code RSC/N0502</p>	<p>Trainee will be able to do following -</p> <ul style="list-style-type: none"> • To be able to do Compression Moulding. • To be able achieve target and meet deadlines while working. • To be able to follow required Safety guidelines 	Same as above
Week 15	<p>Perform Compression Moulding Operation (Session-8)</p> <p>Theory Duration (hh:mm) 0:00</p> <p>Practical Duration (hh:mm) 40:00</p> <p>Corresponding NOS Code RSC/N0502</p>	<p>Trainee will be able to do following -</p> <ul style="list-style-type: none"> • To be able to do Compression Moulding. • To be able achieve target and meet deadlines while working. • To be able to follow required Safety guidelines 	Same as above

Week 16	<p>Perform Compression Moulding Operation (Session-9)</p> <p>Theory Duration (hh:mm) 0:00</p> <p>Practical Duration (hh:mm) 40:00</p> <p>Corresponding NOS Code RSC/N0502</p>	<p>Trainee will be able to do following -</p> <ul style="list-style-type: none"> • To be able to do Compression Moulding. • To be able achieve target and meet deadlines while working. • To be able to follow required Safety guidelines 	Same as above
Week 17	<p>Perform Compression Moulding Operation (Session-10)</p> <p>Theory Duration (hh:mm) 0:00</p> <p>Practical Duration (hh:mm) 40:00</p> <p>Corresponding NOS Code RSC/N0502</p>	<p>Trainee will be able to do following -</p> <ul style="list-style-type: none"> • To be able to do Compression Moulding. • To be able achieve target and meet deadlines while working. • To be able to follow required Safety guidelines 	Same as above
Week 18	<p>Perform Compression Moulding Operation (Session-11)</p> <p>Theory Duration (hh:mm) 0:00</p> <p>Practical Duration (hh:mm) 40:00</p> <p>Corresponding NOS Code RSC/N0502</p>	<p>Trainee will be able to do following -</p> <ul style="list-style-type: none"> • To be able to do Compression Moulding. • To be able achieve target and meet deadlines while working. • To be able to follow required Safety guidelines 	Same as above
Week 19	<p>Perform Compression Moulding Operation (Session-12)</p> <p>Theory Duration (hh:mm) 0:00</p> <p>Practical Duration (hh:mm) 40:00</p> <p>Corresponding NOS Code RSC/N0502</p>	<p>Trainee will be able to do following -</p> <ul style="list-style-type: none"> • To be able to do Compression Moulding. • To be able achieve target and meet deadlines while working. • To be able to follow required Safety guidelines 	Same as above

Week 20	<p>Perform Compression Moulding Operation (Session-13) Theory Duration (hh:mm) 0:00 Practical Duration (hh:mm) 40:00</p> <p>Corresponding NOS Code RSC/N0502</p>	<p>Trainee will be able to do following -</p> <ul style="list-style-type: none"> • To be able to do Compression Moulding. • To be able achieve target and meet deadlines while working. • To be able to follow required Safety guidelines 	Same as above
Week 21	<p>Perform Compression Moulding Operation (Session-14) Theory Duration (hh:mm) 0:00 Practical Duration (hh:mm) 40:00</p> <p>Corresponding NOS Code RSC/N0502</p>	<p>Trainee will be able to do following -</p> <ul style="list-style-type: none"> • To be able to do Compression Moulding. • To be able achieve target and meet deadlines while working. • To be able to follow required Safety guidelines 	Same as above
Week 22	<p>Perform Compression Moulding Operation (Session-15) Theory Duration (hh:mm) 0:00 Practical Duration (hh:mm) 40:00</p> <p>Corresponding NOS Code RSC/N0502</p>	<p>Trainee will be able to do following -</p> <ul style="list-style-type: none"> • To be able to do Compression Moulding. • To be able achieve target and meet deadlines while working. • To be able to follow required Safety guidelines 	Same as above
Week 23	<p>Perform Compression Moulding Operation (Session-16) Theory Duration (hh:mm) 0:00 Practical Duration (hh:mm) 40:00</p> <p>Corresponding NOS Code RSC/N0502</p>	<p>Trainee will be able to do following -</p> <ul style="list-style-type: none"> • To be able to do Compression Moulding. • To be able achieve target and meet deadlines while working. • To be able to follow required Safety guidelines 	Same as above

<p>Week 24</p>	<p>Perform Compression Moulding Operation (Session-17)</p> <p>Theory Duration (hh:mm) 0:00</p> <p>Practical Duration (hh:mm) 40:00</p> <p>Corresponding NOS Code RSC/N0502</p>	<p>Trainee will be able to do following -</p> <ul style="list-style-type: none"> • To be able to do Compression Moulding. • To be able achieve target and meet deadlines while working. • To be able to follow required Safety guidelines 	<p>Same as above</p>
<p>Week 25</p>	<p>Undertake Post Compression Moulding Activities (Session-1)</p> <p>Theory Duration (hh:mm) 25:00</p> <p>Practical Duration (hh:mm) 15:00</p> <p>Corresponding NOS Code RSC/N0503</p>	<p>Trainee will be able to do following -</p> <ul style="list-style-type: none"> • Remove cured product properly as per SOP • Ensure post cure wherever required as per SOP • Remove the compound flash from the mould and ensure clean mould for next cycle as per SOP • Trim the piece to remove flash in a manner that does not cause injury to the operator or the product as per SOP • Ensure surface treatment of the cured product wherever required as per SOP • Dispose waste as per Company SOP • Ensure identification and traceability by batch marking/ coding for the right product as per instructions laid down by the company (in terms of batch number, colour, date stamp) end sample of specified compound/ batch in specified form to lab for testing • Send the remaining material to the designated storage area • Ensure mould lifting/ ejection/ slide mechanism of the press are properly functioning • Adhere to all safety norms (like wearing protective gloves, shoes, safety glasses) • Comply with health, safety, environment guidelines, regulations in accordance with international/national standards or organizational SOP 	<p>Power point presentation, LCD projector, Computer, LCD screen, white board, marker, pointer. Hydraulic rubber moulding press of size 75 cm x 75 cm or higher with electric / steam heated platens and necessary tools and accessories, Safety equipment such as fire extinguishers, helmet, gloves, goggles etc., Digital thermometers, moulds, materials for moulding such as rubber mix, mould release agent, marker pencils, Moulded parts, trimming scissors, trimming knives etc.</p>

Week 26	<p>Undertake Post Compression Moulding Activities (Session-2)</p> <p>Theory Duration (hh:mm) 0:00</p> <p>Practical Duration (hh:mm) 40:00</p> <p>Corresponding NOS Code RSC/N0503</p>	<p>Trainee will be able to do following -</p> <ul style="list-style-type: none"> Remove cured product properly as per SOP Finish the moulded part with scissors & Knives Dispose waste as per Company SOP Provide Identification to produced parts Storage of produced parts Adhere to all safety norms (like wearing protective gloves, shoes, safety glasses) 	Same as above
Week 27	<p>Undertake Post Compression Moulding Activities (Session-3)</p> <p>Theory Duration (hh:mm) 0:00</p> <p>Practical Duration (hh:mm) 40:00</p> <p>Corresponding NOS Code RSC/N0503</p>	<p>Trainee will be able to do following -</p> <ul style="list-style-type: none"> Remove cured product properly as per SOP Finish the moulded part with scissors & Knives Dispose waste as per Company SOP Provide Identification to produced parts Storage of produced parts Adhere to all safety norms (like wearing protective gloves, shoes, safety glasses) 	Same as above
Week 28	<p>Undertake Post Compression Moulding Activities (Session-4)</p> <p>Theory Duration (hh:mm) 0:00</p> <p>Practical Duration (hh:mm) 40:00</p> <p>Corresponding NOS Code RSC/N0503</p>	<p>Trainee will be able to do following -</p> <ul style="list-style-type: none"> Remove cured product properly as per SOP Finish the moulded part with scissors & Knives Dispose waste as per Company SOP Provide Identification to produced parts Storage of produced parts Adhere to all safety norms (like wearing protective gloves, shoes, safety glasses) 	Same as above
Week 29	<p>Undertake Post Compression Moulding Activities (Session-5)</p> <p>Theory Duration (hh:mm) 0:00</p> <p>Practical Duration (hh:mm) 40:00</p> <p>Corresponding NOS Code RSC/N0503</p>	<p>Trainee will be able to do following -</p> <ul style="list-style-type: none"> Remove cured product properly as per SOP Finish the moulded part with scissors & Knives Dispose waste as per Company SOP Provide Identification to produced parts Storage of produced parts Adhere to all safety norms (like wearing protective gloves, shoes, safety glasses) 	Same as above

Week 30	<p>Undertake Post Compression Moulding Activities (Session-6)</p> <p>Theory Duration (hh:mm) 0:00</p> <p>Practical Duration (hh:mm) 40:00</p> <p>Corresponding NOS Code RSC/N0503</p>	<p>Trainee will be able to do following -</p> <ul style="list-style-type: none"> Remove cured product properly as per SOP Finish the moulded part with scissors & Knives Dispose waste as per Company SOP Provide Identification to produced parts Storage of produced parts Adhere to all safety norms (like wearing protective gloves, shoes, safety glasses) 	Same as above
Week 31	<p>Undertake Post Compression Moulding Activities (Session-7)</p> <p>Theory Duration (hh:mm) 0:00</p> <p>Practical Duration (hh:mm) 40:00</p> <p>Corresponding NOS Code RSC/N0503</p>	<p>Trainee will be able to do following -</p> <ul style="list-style-type: none"> Remove cured product properly as per SOP Finish the moulded part with scissors & Knives Dispose waste as per Company SOP Provide Identification to produced parts Storage of produced parts Adhere to all safety norms (like wearing protective gloves, shoes, safety glasses) 	Same as above
Week 32	<p>Health and Safety (Session-1)</p> <p>Theory Duration (hh:mm) 10:00</p> <p>Practical Duration (hh:mm) 30:00</p> <p>Corresponding NOS Code Bridge Module</p>	<p>Trainee will be able to do following -</p> <ul style="list-style-type: none"> Identify different methods of first aid. Perform first aid. Understand CPR. Perform CPR in case of emergency. 	Power point presentation, LCD projector, Computer, LCD screen, white board, marker, pointer, CPR Mannequin, First Aid Kit
Week 33	<p>Housekeeping (Session-1)</p> <p>Theory Duration (hh:mm) 10:00</p> <p>Practical Duration (hh:mm) 30:00</p> <p>Corresponding NOS Code RSC/N5001</p>	<p>Trainee will be able to do following -</p> <ul style="list-style-type: none"> Inspect the area while taking into account various surfaces Identify the material requirements for cleaning the areas inspected, by considering risk, time, efficiency and type of stain Ensure that the cleaning equipment is in proper working condition Select the suitable alternatives for cleaning the areas in case the appropriate equipment and materials are not available and inform the appropriate person 	Power point presentation, LCD projector, Computer, LCD screen, white board, marker, pointer. Hydraulic rubber moulding press of size 75 cm x 75 cm or higher with electric/stem heated platens and necessary tools and accessories, Safety equipment such

		<ul style="list-style-type: none"> • Plan the sequence for cleaning the area to avoid re-soiling clean areas and surfaces • Inform the affected people about the cleaning activity • Display the appropriate signage for the work being conducted • Ensure that there is adequate ventilation for the work being carried out • Wear the personal protective equipment required for the cleaning method and materials being used • Use the correct cleaning method for the work area, type of soiling and surface • Carry out cleaning activity without disturbing others • Deal with accidental damage, if any, caused while carrying out the work • Report to the appropriate person any difficulties in carrying out your work • Identify and report to the appropriate person any additional cleaning required that is outside one’s responsibility or skill • Ensure that there is no oily substance on the floor to avoid slippage • Ensure that no scrap material is lying around • Maintain and store housekeeping equipment and supplies • Follow workplace procedures to deal with any accidental damage caused during the cleaning process • Return the equipment, materials and personal protective equipment that were used to the right places making sure they are clean, safe and securely stored 	<p>as fire extinguishers, helmet, gloves, goggles etc., Digital thermometers, moulds, materials for moulding such as rubber mix, mould release agent, marker pencils etc., cleaning equipment and chemicals</p>
<p>Week 34</p>	<p>Reporting and Documentation (Session-1)</p> <p>Theory Duration (hh:mm) 5:00</p> <p>Practical Duration (hh:mm) 15:00</p> <p>Corresponding NOS Code RSC/N5002</p>	<p>Trainee will be able to do following -</p> <ul style="list-style-type: none"> • Report data/problems/incidents as applicable in a timely manner • Report to the appropriate authority as laid down by the company • Follow reporting procedures as prescribed by the company • Identify documentation to be completed relating to one’s role • Record details accurately an appropriate format 	<p>Power point presentation, LCD projector, Computer, LCD screen, white board, marker, pointer, reporting formats, registers, files</p>

		<ul style="list-style-type: none"> • Complete all documentation within stipulated time according to company procedure • Ensure that the final document meets with the requirements of the persons who requested it or make any amendments accordingly • Make sure documents are available to all appropriate authorities to inspect • Respond to requests for information in an appropriate manner whilst following organizational procedures • Inform the appropriate authority of requests for information received 	
Week 34	<p>Quality Checks (Session-1)</p> <p>Theory Duration (hh:mm) 5:00</p> <p>Practical Duration (hh:mm) 15:00</p> <p>Corresponding NOS Code RSC/N5003</p>	<p>Trainee will be able to do following -</p> <ul style="list-style-type: none"> • Ensure that total range of checks are regularly and consistently performed • Use appropriate measuring instruments, equipment, tools, accessories etc, as required • Identify non-conformities to quality assurance standards • Identify potential causes of non-conformities to quality assurance standards • Identify impact on final product due to non-conformance to company standards • Evaluating the need for action to ensure that problems do not recur • Suggest corrective action to address problem • Review effectiveness of corrective action • Interpret the results of the quality check correctly • Take up results of the findings with QC in charge/appropriate authority. • Take up results of the findings with QC in charge/appropriate authority. • Take up the results of the findings within stipulated time • Record of results of action taken • Record adjustments not covered by established procedures for future reference • Review effectiveness of action taken <p>Follow reporting procedures where the cause of defect cannot be identified</p>	<p>Power point presentation, LCD projector, Computer, LCD screen, white board, marker, pointer, quality manuals, Digital thermometers, moulds, materials for moulding such as rubber mix, mould release agent</p>

<p>Week 34</p>	<p>Problem Identification and Escalation (Session-1)</p> <p>Theory Duration (hh:mm) 5:00</p> <p>Practical Duration (hh:mm) 15:00</p> <p>Corresponding NOS Code RSC/N5004</p>	<p>Trainee will be able to do following -</p> <ul style="list-style-type: none"> • Identify defects/indicators of problems • Identify any wrong practices that may lead to problems • Identify practices that may impact the final product quality • Identify if the problem has occurred before • Identify other operations that might be impacted by the problem • Ensure that no delays are caused as a result of failure to escalate problems • Take appropriate materials and sample, conduct tests and evaluate results to establish reasons to confirm suspected reasons for non-conformance (where required) • Consider possible reasons for identification of problems • Consider applicable corrections and formulate corrective action • Formulate action in a timely manner • Communicate problem/remedial action to appropriate parties • Take corrective action in a timely manner • Take corrective action for problems identified according to the company procedures • Report / document problem and corrective action in an appropriate manner • Monitor corrective action • Evaluate implementation of corrective action taken to determine if the problem has been resolved • Ensure that corrective action selected is viable and practical • Ensure that correct solution is identified to an identified problem • Take corrective action for problems identified according to the company procedures • Ensure that no delays are caused as a result of failure to take necessary action • Escalate problem as per laid down escalation matrix • Escalate the problem within stipulated time • Escalate the problem in an appropriate manner 	<p>Power point presentation, LCD projector, Computer, LCD screen, white board, marker, pointer, reporting formats, registers</p>
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Week 35	<p>Soft Skills</p> <p>Theory Duration (hh:mm) 5:00</p> <p>Practical Duration (hh:mm) 15:00</p> <p>Corresponding NOS Code Bridge Module</p>	<p>Trainee will be able to do following -</p> <ul style="list-style-type: none"> • Understand Art of Effective Communication. • Able to handle effective Communication with co-workers and their Family. • Able to handle effective Communication with Peers/ colleagues using medical terminology in communication. • Learn basic reading and writing skills. • Follow basics of grooming and personal health • Effectively work in a team • Manage time effectively • Prepare for interviews 	<p>White Board + Marker or Black board + Chalk, Duster, Laptop/PC + Projector or Flipcharts, Participant Handbook / Copies of Handouts,</p>
Week 36	<p>IT Skills</p> <p>Theory Duration (hh:mm) 8:00</p> <p>Practical Duration (hh:mm) 12:00</p> <p>Corresponding NOS Code Bridge Module</p>	<p>Trainee will be able to do following -</p> <ul style="list-style-type: none"> • Understand parts of a computer • Understand basics of computer and concept of motherboard • Use Microsoft Word • Use Microsoft PowerPoint • Use Microsoft Excel • Understand Internet and its uses 	<p>Power point presentation, LCD projector, Computer, LCD screen, white board, marker, pointer, Microsoft Office, Internet Connectivity</p>
Week 36	<p>Revision</p> <p>Theory Duration (hh:mm) 10:00</p> <p>Practical Duration (hh:mm) 30:00</p> <p>Corresponding NOS Code All NOS</p>	<p>Trainee will be able to do following -</p> <ul style="list-style-type: none"> • To be able to summarize the skills learned in previous weeks. • To be able to attend all the previous exercises which are mixed. • To make them ready to adopt a career in this field. 	<p>All the equipment as mentioned above</p>
	<p>Total Duration</p> <p>Theory Duration 150:00</p> <p>Practical Duration 1290:00</p>	<p>Unique Equipment Required: Laptop, projector, White board + marker or Black Board + Chalk, Participant Handbook, pointer. Hydraulic rubber moulding press of size 75 cm x 75 cm or higher with electric / steam heated platens and necessary tools and accessories, Safety equipment such as fire extinguishers, helmet, gloves, goggles etc., Digital thermometers, moulds, materials for moulding such as rubber mix, mould release agent, marker pencils, Moulded parts, trimming scissors, trimming knives etc. , CPR Mannequin, First Aid Kit cleaning equipment and chemicals, reporting formats, registers, files, Microsoft Office, Internet Connectivity</p>	

Grand Total Course Duration: **1440 Hours, 0 Minutes**

Assessment Criteria

Assessment Criteria	
Job Role	Compression Moulding Operator
Qualification Pack	RSC/Q0205, v1.0
Sector Skill Council	Rubber Sector Skill Council

Sr. No.	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 lay down proportion of marks for Theory and Skills Practical for each PC.
2	The assessment for the theory part will be based on knowledge bank of questions created by the SSC
3	Individual assessment agencies will create theory question papers for candidates at every examination/training centre. (as per assessment criteria below)
4	Individual assessment agencies will create practical tests for skill evaluation for candidates at every examination/training centre. (as per assessment criteria below)
5	To pass the Qualification Pack, every candidate should score a minimum 70% of aggregate marks to successfully clear the assessment
6	In case of successfully passing only certain number of NOSs, the candidate is eligible to take subsequent assessment on the balance NOSs to pass the Qualification Pack.

		Marks Allocation			
Assessment outcomes	Assessment Criteria for outcomes	Total Mark (700)	Out Of	Theory	Skills Practical
RSC/ 0501 (Prepare compression moulding machine)	PC1. Ensure that compression moulding machine is clean and fit for use as per SOP	100	2	2	0
	PC2. Ensure emergency safety feature of machine is working		2	2	0
	PC3. Select the correct mould		2	2	0
	PC4. Ensure that the mould is clean		2	2	0
	PC5. Assemble the mould properly on the platten		2	2	0
	PC6. Load the mould on the press for preheating and clamp properly after checking alignment.		2	2	0
	PC7. Set parameters for the press (cycle time, temperature and ram pressure) , as per company's SOP		3	3	0
	PC8. Apply the mould release agent appropriately as per SOP		2	2	0
	PC9. Keep all the accessories like cleaning brush, mould release lever (made of brass or aluminium flat), mould release agent ready		3	3	0
	PC10. Ensure that rubber compound to be fed is approved by laboratory as per SOP		5	2	3
	PC11. Match the batch code of each rubber compound with the batch code on the job schedule given by the planning department, ensuring FIFO.		6	2	4
	PC12. Cut the rubber compound as per desired specification(shape, size and weight)		5	2	3

	PC13.Weigh the blank pieces and ensure that they meet the requirement		5	2	3
	PC14. Ensure, by visual inspection, that rubber compound is of desired quality (free of contamination/ bloom)		5	2	3
	PC15. Ensure housekeeping/safety in the moulding area as per SOP		5	2	3
	PC16.Use lifting equipment such as forklift / Trolleys while lifting heavy materials such as moulds to avoid physical injury.		5	2	3
	PC17. Ensure mould lifting/ ejection/ slide mechanism of the press are properly functioning		6	3	3
	PC18. Ensure that signage indicating hot surfaces is put up wherever necessary		8	3	5
	PC19.Adhere to all safety norms (like wearing protective gloves, shoes)		15	5	10
	PC20.Comply with health, safety, environment guidelines, regulations in accordance with international/national standards or organizational SOP		15	5	10
	Sub Total		100	50	50
RSC/ N 0502 (Perform compression moulding operation)	PC1. Handle the rubber compound to avoid contamination	100	10	5	5
	PC2. Load the identified material in the correct pattern as per SOP to minimize material overflow/ wastage/ excess flash		10	10	0
	PC3. Properly close the press and apply pressure uniformly		5	5	0
	PC4. Bump the press to ensure that air is eliminated		5	5	0
	PC5. Ensure that moulding pressure and temperature is maintained during the curing cycle		5	5	0

	PC6. Cure the product as per SOP		10	10	0
	PC7. Ensure housekeeping/safety in the moulding area as per SOP		15	5	10
	PC8. Ensure mould lifting/ ejection/ slide mechanism of the press are properly functioning		10	5	5
	PC9. Adhere to all other safety norms (like wearing shoes, hand gloves, safety glasses)		15	5	10
	PC10. Comply with health, safety, environment guidelines, regulations in accordance with international/national standards or organizational SOP		15	5	10
	Sub Total		100	60	40
RSC/ N0503 (Undertake post compression moulding activities)	PC1. Remove cured product properly as per SOP	100	3	3	0
	PC2. Ensure post cure wherever required as per SOP		3	3	0
	PC3. Remove the compound flash from the mould and ensure clean mould for next cycle as per SOP		3	3	0
	PC4. Trim the piece to remove flash in a manner that does not cause injury to the operator or the product as per SOP		5	5	0
	PC5. Ensure surface treatment of the cured product wherever required as per SOP		5	5	0
	PC6. Dispose waste material in safe manner as per company's SOP		5	5	0
	PC7. Ensure identification and traceability by batch marking/ coding for the right product as per instructions laid down by the company (in terms of batch number, colour, date stamp)		30	15	15

	PC8. Send sample of specified compound/ batch in specified form to lab for testing		3	3	0
	PC9. Send the remaining material to the designated storage area		5	5	0
	PC10. Ensure mould lifting/ ejection/ slide mechanism of the press are properly functioning		10	5	5
	PC11. Adhere to all safety norms (like wearing protective gloves, shoes, safety glasses)		14	4	10
	PC12. Comply with health, safety, environment guidelines, regulations in accordance with international/national standards or organizational SOP		14	4	10
	Sub Total		100	60	40
RSC/ N5001 (To carry out housekeeping)	PC1. Inspect the area while taking into account various surfaces	100	3	3	0
	PC2. Identify the material requirements for cleaning the areas inspected, by considering risk, time, efficiency and type of stain		3	3	0
	PC3. Ensure that the cleaning equipment is in proper working condition		3	3	0
	PC4. Select the suitable alternatives for cleaning the areas in case the appropriate equipment and materials are not available and inform the appropriate person		3	3	0
	PC5. Plan the sequence for cleaning the area to avoid re-soiling clean areas and surfaces		3	3	0
	PC6. Inform the affected people about the cleaning activity		2	2	0
	PC7. Display the appropriate signage for the work being conducted		3	3	0
	PC8. Ensure that there is adequate ventilation for the work being carried out		3	3	0

PC9. Wear the personal protective equipment required for the cleaning method and materials being used	3	3	0
PC10. Use the correct cleaning method for the work area, type of soiling and surface	3	3	0
PC11. Carry out cleaning activity without disturbing others	3	3	0
PC12. Deal with accidental damage, if any, caused while carrying out the work	3	3	0
PC13. Report to the appropriate person any difficulties in carrying out your work	3	3	0
PC14. Identify and report to the appropriate person any additional cleaning required that is outside one's responsibility or skill	3	3	0
PC15. Ensure that there is no oily substance on the floor to avoid slippage	9	3	6
PC16. Ensure that no scrap material is lying around	9	3	6
PC17. Maintain and store housekeeping equipment and supplies	3	3	0
PC18. Follow workplace procedures to deal with any accidental damage caused during the cleaning process	3	3	0
PC19. Ensure that, on completion of the work, the area is left clean and dry and meets requirements	8	2	6
PC20. Return the equipment, materials and personal protective equipment that were used to the right places making sure they are clean, safe and securely stored	3	3	0
PC21. Dispose the waste garnered from the activity in an appropriate manner	9	3	6
PC22. Dispose of used and unused solutions according to manufacturer's instructions, and clean the equipment thoroughly	9	3	6
PC23. Maintain schedules and records for housekeeping duty	3	3	0

	PC24. Replenish any necessary supplies or consumables		3	3	0
	Sub Total		100	70	30
RSC/N5002 To Carry Out Reporting And Documentation	PC1. Report data / problems / incidents as applicable in a timely manner	100	12	8	4
	PC2. Report to the appropriate authority as laid down by the company		12	8	4
	PC3. Follow reporting procedures as prescribed by the company		12	8	4
	PC4. Identify documentation to be completed relating to one's role		10	6	4
	PC5. Record details accurately an appropriate format		16	6	10
	PC6. Complete all documentation within stipulated time according to company procedure		14	4	10
	PC7. Ensure that the final document meets with the requirements of the persons who requested it or make any amendments accordingly		6	4	2
	PC8. Make sure documents are available to all appropriate authorities to inspect		6	4	2
	PC9. Respond to requests for information in an appropriate manner whilst following organizational procedures		6	6	0
	PC10. Inform the appropriate authority of requests for information received		6	6	0
	Sub Total		100	60	40
RSC/N5003 To Carry Out Quality Checks	PC1. Ensure that total range of checks are regularly and consistently performed	100	24	10	14
	PC2. Use appropriate measuring instruments, equipment, tools, accessories etc ,as required		24	10	14
	PC3. Identify non-conformities to quality assurance standards		6	4	2
	PC4. Identify potential causes of non-conformities to quality assurance standards		5	3	2
	PC6. Evaluating the need for action to ensure that problems do not recur		6	4	2

	PC7. Suggest corrective action to address problem		5	3	2
	PC8. Review effectiveness of corrective action		5	3	2
	PC9. Interpret the results of the quality check correctly		4	4	0
	PC10. Take up results of the findings with QC in charge/appropriate authority.		3	3	0
	PC11. Take up the results of the findings within stipulated time		3	3	0
	PC12. Record of results of action taken		3	3	0
	PC13. Record adjustments not covered by established procedures for future reference		3	3	0
	PC14. Review effectiveness of action taken		2	2	0
	PC15. Follow reporting procedures where the cause of defect cannot be identified		2	2	0
	Sub Total		100	60	40
RSC/N5004 To Carry Out Problem Identification And Escalation	PC1. Identify defects/indicators of problems	100	7	4	3
	PC2. Identify any wrong practices that may lead to problems		6	3	3
	PC3. Identify practices that may impact the final product quality		6	3	3
	PC4. Identify if the problem has occurred before		5	3	2
	PC5. Identify other operations that might be impacted by the problem		6	4	2
	PC6. Ensure that no delays are caused as a result of failure to escalate problems		5	3	2
	PC7. Take appropriate materials and sample, conduct tests and evaluate results to establish reasons to confirm suspected reasons for non-conformance (where required)		8	5	3
	PC8. Consider possible reasons for identification of problems		8	5	3
	PC9. Consider applicable corrections and formulate corrective action		3	3	0
	PC10. Formulate action in a timely manner		3	3	0

	PC11. Communicate problem/remedial action to appropriate parties		7	5	2
	PC12. Take corrective action in a timely manner		2	2	0
	PC13. Take corrective action for problems identified according to the company procedures		2	2	0
	PC14. Report/document problem and corrective action in an appropriate manner		8	5	3
	PC15. Monitor corrective action		2	2	0
	PC16. Evaluate implementation of corrective action taken to determine if the problem has been resolved		2	2	0
	PC17. Ensure that corrective action selected is viable and practical		2	2	0
	PC18. Ensure that correct solution is identified to an identified problem		2	2	0
	PC19. Take corrective action for problems identified according to the company procedures		1	1	0
	PC20. Ensure that no delays are caused as a result of failure to take necessary action		1	1	0
	PC21. Escalate problem as per laid down escalation matrix		4	3	1
	PC22. Escalate the problem within stipulated time		4	3	1
	PC23. Escalate the problem in an appropriate manner		3	2	1
	PC24. Ensure that no delays are caused as a result of failure to escalate problems		3	2	1
	Sub Total		100	70	30
	Grand Total	700	700	420	280
	Percentage Weightage:		20%	80%	
	Minimum Pass % to qualify (aggregate):		70%		

EQUIPMENT LIST

PNEUMATIC TYRE MOULDING OPERATOR – RSC/Q0211

S. No.	SSC	QP Code	Name of the QP	NSQF Level	Equipment Name	Min. no. Equipm ent req. (Per batch of 20 trainee s)	Unit	Is this a mandatory Equipment to be available at the training Center (yes/no)	Dimension / Specificatio n / Descriptio n / Any Other Remarks
1	RSDC	RSC/0205	Compression Moulding Operator	4	Compression Moulding Machine	1	Nos.	Yes	
2	RSDC	RSC/0205	Compression Moulding Operator	4	Vernier Caliper	1	Nos.	Yes	
3	RSDC	RSC/0205	Compression Moulding Operator	4	Micro meter	1	Nos.	Yes	
4	RSDC	RSC/0205	Compression Moulding Operator	4	Hardness Tester	1	Nos.	Yes	
5	RSDC	RSC/0205	Compression Moulding Operator	4	Measuring tape	4	Nos.	Yes	
6	RSDC	RSC/0205	Compression Moulding Operator	4	Mould	2	Nos.	Yes	
7	RSDC	RSC/0205	Compression Moulding Operator	4	Mould Clamp	1	Nos.	No	
8	RSDC	RSC/0205	Compression Moulding Operator	4	Crane	1	Nos.	No	
9	RSDC	RSC/0205	Compression Moulding Operator	4	Cleaning Brush	4	Nos.	Yes	
10	RSDC	RSC/0205	Compression Moulding Operator	4	Cleaning doth	As per Req.	Nos.	Yes	
11	RSDC	RSC/0205	Compression Moulding Operator	4	Solvent	10	Liters	Yes	
12	RSDC	RSC/0205	Compression Moulding Operator	4	Floor Cleaning Equipment	1	Nos.	No	
13	RSDC	RSC/0205	Compression Moulding Operator	4	Air Pressure Gun	1	Nos.	Yes	
14	RSDC	RSC/0205	Compression Moulding Operator	4	Flash Removing Tool	4	Nos.	Yes	
15	RSDC	RSC/0205	Compression Moulding Operator	4	Scissor	4	Nos.	Yes	

FURTHER LEARNING PATHWAYS

After completion of the apprenticeship training the candidates have wide career choices available with them in the Rubber industry. A candidate after completing apprenticeship can be skilled horizontally in various segments like, Mixing, Moulding, Lab Testing, Extrusion, Calendaring & Warehousing, and can finally be vertically moved to heading the production unit.

The candidates after their tenure as apprentice may adopt any of the following:

1. **Rubber Technician:** They may adopt the career as Rubber Technician and will be capable of doing following jobs:
 - A) **Production–Junior Rubber Technician – RSC/Q0831:** The apprentice will be capable of assisting in various production activity of Rubber.
 - B) **Moulding/Curing – Continuous Curing Operator – RSC/Q0208:** The apprentice will be capable of working in Continuous Curing operation.
 - C) **Moulding/Curing – Mould Cleaning & Inspection Operator – RSC/Q0212:** The apprentice will be capable of doing Mould Cleaning & Inspection activities.

2. **Supervisor:** The training gives them the scope of working as a supervisor, as for the job roles mentioned below, which enable them to move to the level of production manager
 - **Production - Junior Rubber Technician – RSC/Q0831**
 - **Production – Supervisor – Moulding Curing – RSC/Q0213**

3. **Moulding/Curing - Production Manager (Compression Moulding):** The apprentice with due amount of experience can manage the production and supervise the quality assurance of the products fabricated and also be able to take responsibility for all the planning, coordination and the control of manufacturing processes, and also map the demand and supply gap.

Employment opportunities:

Apart from above mentioned avenues, the apprentice can always aspire to be one of the following as stated below:

- 1) **Rubber moulded parts manufacturing units in India:** The apprentice may be employed with the biggest player of the trades and be a part of their manufacturing set and deliver quality work.
- 2) **Rubber Parts manufacturing set up:** The apprentice may be encouraged to set up their own manufacturing unit.
- 3) **Education and Training:** They may also take up the role of the instructor in this field, where they can impart their manufacturing knowledge to the aspiring students.

INFRASTRUCTURE FOR ON-JOB TRAINING

TRADE: COMPRESSION MOULDING TECHNICIAN

For a Batch of 30 APPRENTICES

Actual training will depend on the existing facilities available in the establishments. However, the industry should ensure that the broad skills defined against On –Job Training part (i.e. 9 months) are imparted. In case of any short fall the concern industry may impart the training in cluster mode/ any other industry/ at any setup.

GUIDELINES FOR INSTRUCTORS AND PAPER SETTERS

Due care to be taken for proper & inclusive delivery among the batch. Some of the following some method of delivery may be adopted:

- A) LECTURE
- B) LESSON
- C) DEMONSTRATION
- D) PRACTICE
- E) GROUPDISCUSSION
- F) DISCUSSION WITH PEERGROUP
- G) PROJECTWORK
- H) INDUSTRIALVISIT

2. Maximum utilization of latest form of training viz., audio visual aids, integration of IT, etc. may be adopted.

3. The total hours to be devoted against each topic may be decided with due diligence to safety & with prioritizing transfer of required skills.



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