



APPRENTICESHIP CURRICULUM
for
Inspection and Final Finish
under
Rubber, Chemicals and Petrochemicals

1	Program Title : Inspection and Final Finish
2	Program Code, if any : RSC/Q1501, RSC/Q0418, RSC/Q0417, RSC/Q0108
3	Duration (hours and months) for theory (Block I): 960 (5 months approximately)
4	Duration (hours and months) for On the Job Training (Block II): 5952 (31 months approximately with instructions)
5	Certifying body for theory component: RSDC
6	Certifying Body for On the Job training/practical component: Tyre manufacturing companies
7	Minimum eligibility criteria (Educational Qualification and/or technical Qualification and Experience) Exemptions, if any: VIII th pass
8	Trainer's Qualification and Experience(BT and OJT) : BTech/BE preferably in Rubber, Chemical or Polymer with 5+ Yrs. Of experience in Rubber or related industry
9	Basic Training exemption criteria: Graduates
10	<p>Indicative list of training tools required to deliver this qualification (may be attached as Annex A):</p> <ul style="list-style-type: none"> • Rotary vibrator • Surf finishers • Mass finishing machines • Whiteboard • Marker or Blackboard • Chalk • Duster • Laptop/PC • Projector or flipcharts • Participant Handbook • Copies of hand-outs • Rubber product quality lab • Material handling equipment • Rubber product specific testing equipment, like rubber hardness tester, tensile tester, rebound tester, ozone tester, oven, furnace, melting point tester, ash content testing equipment, mooney viscometer • Rubber hardness tester • Tensile tester • Rebound tester • Ozone tester • Oven • Furnace • Melting point tester

- Ash content testing equipment
- Laptop
- Whiteboard
- Marker
- Projector
- Power point presentation
- LCD screen
- Computer
- Pointer
- Trucks
- Pellets
- Conveyors
- Cranes
- Hand trucks
- Pallet jack
- Stacker
- Platform truck
- Tractor trailer
- Dock leveler
- Balancer
- Skids
- Slip sheets
- Cartons (different sizes)
- Tote pans
- Bulk load containers
- Intermodal containers
- Palletizers
- Flex baskets
- Strapping tensioners
- Carton sealers
- Cello tape
- Polyester strap
- Shrink wrap machine
- Strapping locker
- Strapping machine
- Stretch wrapper
- Weighing scales
- Pallet rack
- Drive-through rack
- Shelves
- CPR Mannequin
- First Aid Kit
- Reporting formats
- Registers

- Files
- Quality manuals
- Digital thermometers
- Moulds
- Materials for moulding such as rubber mix
- Mould release agent
- Calipers
- Bore gages
- Fixed gages
- Micrometers
- Protractors
- Indicators and comparators
- Air metrology instruments
- Ring gages
- Length gages
- Thread gages

11 Formal structure of the curriculum

	Modules	Duration of Training-Theory (in hours)	Duration of Training-Practical	Total duration
Basic Training Program-Finishing Operator (Tyre) Semesters 1-2	Introduction	5	0	5
	Gender and PwD Sensitisation	5	0	5
	Equipment readiness	5	15	20
	Raw material Appropriateness for Preparing material, tools and machine	5	15	20
	Manage Health and Safety	5	15	20
	Material and Tools Readiness	5	15	20
	Operation to be Undertaken for	5	10	15

I. Theory components (Block I)

	finishing of tyres			
	Pre housekeeping activities	5	10	15
	Operations To carry out housekeeping	5	10	15
	Post housekeeping activities	5	10	15
	General Responsibility	5	10	15
	Reporting, Recording and Documentation	5	10	15
	Information Security	5	10	15
	Inspection, analysing and reporting	5	10	15
	Problem Identification and Escalation	5	10	15
	Necessary Action	5	10	15
	Total	80	160	240
Basic Training Program-Quality Control Inspector-Dimension check Semesters 2-3	Introduction	5	0	5
	Gender and PwD Sensitisation	5	0	5
	Sample Collection	5	15	20
	Dimension Check	5	15	20
	Health & Safety	5	15	20
	Pre housekeeping activities	5	15	20
	Operations To carry out housekeeping	5	15	20

	Post housekeeping activities	5	15	20
	General Responsibility	5	15	20
	Reporting, Recording and Documentation	5	15	20
	Information Security	5	15	20
	Inspection, analysing and reporting	5	15	20
	Problem Identification and Escalation	5	10	15
	Necessary Action	5	10	15
	Total	70	170	240
Basic Training Program- Quality Control Inspector- Visual Inspection Semesters 4-5	Introduction	5	0	5
	Gender and PwD Sensitisation	5	0	5
	Inspection	10	30	40
	Pre housekeeping activities	10	20	30
	Operations To carry out housekeeping	5	15	20
	Post housekeeping activities	5	15	20
	General Responsibility	5	15	20
	Reporting, Recording and Documentation	5	15	20
	Information Security	5	15	20
	Inspection, analysing and reporting	5	15	20

	Problem Identification and Escalation	5	15	20	
	Necessary Action	5	15	20	
	Total	70	170	240	
Basic Training Program- Material Handling and Storage Operator Semesters 5-6	Introduction	5	0	5	
	Performing rubber product loading and unloading activity	10	30	40	
	Carry out rubber product assembling and packaging	10	30	40	
	Undertake storage of rubber products	10	20	30	
	Undertake rubber product dispatch activities	10	20	30	
	Health and Safety	5	10	15	
	Carry out housekeeping in rubber product manufacturing	5	15	20	
	Carry out reporting and documentation	5	15	20	
	Carry out quality checks	5	15	20	
	Carry out problem identification and escalation	5	15	20	
	Total		70	170	240
Total duration of BT		290	670	960	
On the Job	Equipment readiness	4	103	107	
	Raw material	4	102	106	

Training Program-Finishing Operator (Tyre) Semesters 1-2	Appropriateness for Preparing material, tools and machine			
	Manage Health and Safety	4	103	107
	Material and Tools Readiness	4	103	107
	Operation to be Undertaken for finishing of tyres	4	102	106
	Pre housekeeping activities	4	103	107
	Operations To carry out housekeeping	4	102	106
	Post housekeeping activities	4	102	106
	General Responsibility	4	102	106
	Reporting, Recording and Documentation	4	102	106
	Information Security	4	102	106
	Inspection, analysing and reporting	4	102	106
	Problem Identification and Escalation	4	102	106
	Necessary Action	4	102	106
	Total		56	1432
On the Job Training Program-Quality	Sample Collection	4	120	124
	Dimension Check	4	120	124
	Health & Safety	4	120	124

	Control Inspector-Dimension check Semesters 2-3	Pre housekeeping activities	4	120	124
		Operations To carry out housekeeping	4	120	124
		Post housekeeping activities	4	120	124
		General Responsibility	4	120	124
		Reporting, Recording and Documentation	4	120	124
		Information Security	4	120	124
		Inspection, analysing and reporting	4	120	124
		Problem Identification and Escalation	4	120	124
		Necessary Action	4	120	124
	Total		48	1440	1488
	On the Job Training Program-Quality Control Inspector-Visual Inspection Semesters 4-5	Inspection	4	145	149
		Pre housekeeping activities	4	145	149
		Operations To carry out housekeeping	4	145	149
		Post housekeeping activities	4	145	149
		General Responsibility	4	144	148
Reporting, Recording and Documentation		4	145	149	
Information Security		4	144	148	

Finishing Operator (Tyre) - Semesters 1-2

		Inspection, analysing and reporting	4	145	149
		Problem Identification and Escalation	4	145	149
		Necessary Action	4	145	149
	Total		40	1448	1488
	On the Job Training Program- Material Handling and Storage Operator Semesters 5-6	Carry out rubber product assembling and packaging	8	178	186
		Undertake storage of rubber products	8	178	186
		Undertake rubber product dispatch activities	8	178	186
		Health and Safety	8	178	186
		Carry out housekeeping in rubber product manufacturing	8	178	186
		Carry out reporting and documentation	8	178	186
		Carry out quality checks	8	178	186
		Carry out problem identification and escalation	8	178	186
	Total		64	1424	1488
	Total duration of OJT		208	5744	5952
11	Total Pass marks				
		Total and Pass Marks- Theory	Total and Pass Marks- Practical		

	Basic Training Program	210 out of 300	140 out of 200
	On the Job Training Program	210 out of 300	140 out of 200
12	<p>Job description-brief: On completion of the course, the individual has to perform the following job responsibilities:</p> <ul style="list-style-type: none"> • Trim vents and remove flashes from bead area and tyre centerline of cured tyres • Inspect for any defect and hold defective tyres review committee for disposition • Carry out final finishing of good tyres • Make them ready for storage/dispatch • Carry out dimension checks to ensure quality of the rubber product • Inspect the quality of rubber product visually and identify defects • Proper loading/ unloading • Locate in assigned locations • Assemble rubber products • Packaging and storage of the material 		
13	<p>Employment avenues/opportunities: Automotive Industry, Construction, Agriculture, Sports and Leisure Industry</p>		
14	<p>Curriculum update version and date: 18.03.2020; 1.0</p>		
15	<p>Curriculum revision date: 18.03.2023</p>		

Modules	Topics/Expected Key Learning outcomes
<p>Introduction</p> <p>Theory: 5 hours</p> <p>Practical: 00 hours</p> <p>Corresponding NOS: Bridge Module</p>	<ul style="list-style-type: none"> • List the benefits provided by the Rubber Industry. • Summarise the role and the importance of the Rubber Industry. • Paraphrase information (evidence, articles, etc.) regarding Rubber Industry. • Categorise various services and sub-sectors in the Rubber Industry. • Describe the key emerging trends in the Rubber Industry. • List a few major organisations in the Rubber Industry • Compare the current and the projected markets, in India and abroad. • Provide a few examples of current and upcoming trends in demand for rubber products

	<ul style="list-style-type: none"> Classify the skills and competencies along with a career path for a Tyre Building Operator- Passenger Vehicles
<p>Gender and PwD Sensitisation</p> <p>Theory: 5 hours</p> <p>Practical: 00 hours</p> <p>Corresponding NOS: Bridge Module</p>	<ul style="list-style-type: none"> Explain the concept of gender identity, roles and expressions of an individual Recognise the difference and diversity among genders Devise ways to get rid of discrimination on the basis of gender Practise using gender-neutral/gender-inclusive terms to make everybody feel important and a part of the organisation Implement strict laws to prevent sexual harassment towards the opposite gender Spread the idea of equal payment, opportunities and just appraisal as a norm Inform about the job roles that can be performed by PwD Describe proper attitude towards Persons with disability Prioritise strict laws to prevent workplace bullying, physical, and verbal abuse Practise using of relevant and assistive technology
<p>Equipment Readiness</p> <p>Theory: 5 hours</p> <p>Practical: 15 hours</p> <p>Corresponding NOS: RSC/N1508</p>	<ul style="list-style-type: none"> Discuss how to ensure that all the required tools (trimming knives, buffer, portable light , eye glasses etc.) are available, clean and in ready to use condition
<p>Raw material Appropriateness for Preparing material, tools and machine</p> <p>Theory: 5 hours</p>	<ul style="list-style-type: none"> Discuss the flow of available tyres

<p>Practical: 15 hours</p> <p>Corresponding NOS: RSC/N1508</p>	
<p>Manage Health and Safety</p> <p>Theory: 5 hours</p> <p>Practical: 15 hours</p> <p>Corresponding NOS: RSC/N1508</p>	<ul style="list-style-type: none"> • Discuss the use of certified/tested tools and machine and how to check their functioning • Discuss how water, solvent and other materials on the inspection table/place should be avoided • Summarise how all activities should be carried out in a manner that does not cause risk of injury to himself/herself or others • Discuss how activities should be carried out in a manner that does not cause damage to equipment
<p>Material and Tools Readiness</p> <p>Theory: 5 hours</p> <p>Practical: 15 hours</p> <p>Corresponding NOS: RSC/N1509</p>	<ul style="list-style-type: none"> • Discuss how tyres should be arranged in the designated area for trimming, inspection and finishing • List the hand tools which should be kept ready before starting the finishing process
<p>Operation to be Undertaken for finishing of tyres</p> <p>Theory: 5 hours</p> <p>Practical: 10 hours</p> <p>Corresponding NOS: RSC/N1509</p>	<ul style="list-style-type: none"> • List the blemish areas on the tyre and ways to keep them in a separate area and inform supervisor for corrective action • Summarise ways to Carry out post cure painting of the tyre to improve the appearance • Discuss ways to carry out post cure painting of the tyre to improve the appearance • Summarise ways to Handle the defective / scrapped tyre as per the procedures laid down by the technical department for review committee to analyse and dispose of the tyres

<p>Pre housekeeping activities</p> <p>Theory: 5 hours</p> <p>Practical: 10 hours</p> <p>Corresponding NOS: RSC/N5001</p>	<ul style="list-style-type: none"> • List the material requirements for cleaning the areas inspected, by considering risk, time, efficiency and type of stain • Recognise the cleaning equipment is in proper working condition • Discuss the suitable alternatives for cleaning the areas in case the appropriate equipment and materials are not available and inform the appropriate person • Discuss cleaning activity informing affected people • Recognise if there is adequate ventilation for the work being carried out • List the personal protective equipment required for the cleaning method and materials being used
<p>Operations To carry out housekeeping</p> <p>Theory: 5 hours</p> <p>Practical: 10 hours</p> <p>Corresponding NOS: RSC/N5001</p>	<ul style="list-style-type: none"> • Discuss how to deal with accidental damage, if any, caused while carrying out the work
<p>Post housekeeping Activities</p> <p>Theory: 5 hours</p> <p>Practical: 10 hours</p> <p>Corresponding NOS: RSC/N5001</p>	<ul style="list-style-type: none"> • Identify that there is no oily substance on the floor to avoid slippage • Identify no scrap material is lying around • Discuss maintenance and storage of housekeeping equipment and supplies • Discuss workplace procedures to deal with any accidental damage caused during the cleaning process
<p>General Responsibility</p> <p>Theory: 5 hours</p>	<ul style="list-style-type: none"> • List the schedules and records for housekeeping duty

<p>Practical: 10 hours</p> <p>Corresponding NOS: RSC/N5001</p>	
<p>Reporting, Recording and Documentation</p> <p>Theory: 5 hours</p> <p>Practical: 10 hours</p> <p>Corresponding NOS: RSC/N5002</p>	<ul style="list-style-type: none"> • Discuss reporting procedures as prescribed by the company • Discuss the completion of documentation which should be completed relating to one's role • Discuss how the final document meets with the requirements of the persons who requested it or make any amendments accordingly • Identify that documents are available to all appropriate authorities to inspect
<p>Information Security</p> <p>Theory: 5 hours</p> <p>Practical: 10 hours</p> <p>Corresponding NOS: RSC/N5002</p>	<ul style="list-style-type: none"> • List requests for information in an appropriate manner whilst following organizational procedures
<p>Inspection, Analysing and Reporting</p> <p>Theory: 5 hours</p> <p>Practical: 10 hours</p>	<ul style="list-style-type: none"> • Identify that the total range of checks are regularly and consistently performed • 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 • Analyse the Record of results of action taken • Analyse effectiveness of action taken

Corresponding NOS: RSC/N5003	<ul style="list-style-type: none"> List reporting procedures where the cause of defect cannot be identified
Problem Identification and Escalation Theory: 5 hours Practical: 10 hours Corresponding NOS: RSC/N5004	<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
Necessary Action Theory: 5 hours Practical: 10 hours Corresponding NOS: RSC/N5004	<ul style="list-style-type: none"> Consider possible reasons for identification of problems Consider applicable corrections and formulate corrective action Identify action in a timely manner Identify corrective action Consider if corrective action selected is viable and practical Discuss if correct solution is identified to an identified problem Discuss that no delays should be caused as a result of failure to take necessary action

Quality Control Inspector-Dimension check - Semesters 2-3

Modules	Topics/Expected Key Learning outcomes
Introduction Theory: 5 hours	<ul style="list-style-type: none"> List the benefits provided by the Rubber Industry. Summarise the role and the importance of the Rubber Industry. Paraphrase information (evidence, articles, etc.) regarding Rubber Industry.

<p>Practical: 00 hours</p> <p>Corresponding NOS: Bridge Module</p>	<ul style="list-style-type: none"> • Categorise various services and sub-sectors in the Rubber Industry. • Describe the key emerging trends in the Rubber Industry. • List a few major organisations in the Rubber Industry • Compare the current and the projected markets, in India and abroad. • Provide a few examples of current and upcoming trends in demand for rubber products • Classify the skills and competencies along with a career path for a Tyre Building Operator-Passenger Vehicles
<p>Gender and PwD Sensitisation</p> <p>Theory: 5 hours</p> <p>Practical: 00 hours</p> <p>Corresponding NOS: Bridge Module</p>	<ul style="list-style-type: none"> • Explain the concept of gender identity, roles and expressions of an individual • Recognise the difference and diversity among genders • Devise ways to get rid of discrimination on the basis of gender • Practise using gender-neutral/gender-inclusive terms to make everybody feel important and a part of the organisation • Implement strict laws to prevent sexual harassment towards the opposite gender • Spread the idea of equal payment, opportunities and just appraisal as a norm • Inform about the job roles that can be performed by PwD • Describe proper attitude towards Persons with disability • Prioritise strict laws to prevent workplace bullying, physical, and verbal abuse • Practise using of relevant and assistive technology
<p>Sample Collection</p> <p>Theory: 5 hours</p> <p>Practical: 15 hours</p>	<ul style="list-style-type: none"> • Discuss the validity of the data collected

<p>Corresponding NOS: RSC/N1801</p>	
<p>Dimension Check</p> <p>Theory: 5 hours</p> <p>Practical: 15 hours</p> <p>Corresponding NOS: RSC/N1801</p>	<ul style="list-style-type: none"> • Summarise the dimensions in check sheet • List the results
<p>Health & Safety</p> <p>Theory: 5 hours</p> <p>Practical: 15 hours</p> <p>Corresponding NOS: RSC/N1801</p>	<ul style="list-style-type: none"> • Discuss health, safety, environment guidelines, regulations etc. in accordance with international/national standards or organizational SOP
<p>Pre housekeeping activities</p> <p>Theory: 5 hours</p> <p>Practical: 15 hours</p> <p>Corresponding NOS: RSC/N5001</p>	<ul style="list-style-type: none"> • List the material requirements for cleaning the areas inspected, by considering risk, time, efficiency and type of stain • Recognise the cleaning equipment is in proper working condition • Discuss the suitable alternatives for cleaning the areas in case the appropriate equipment and materials are not available and inform the appropriate person • Discuss cleaning activity informing affected people • Recognise if there is adequate ventilation for the work being carried out • List the personal protective equipment required for the cleaning method and materials being used
<p>Operations To carry out housekeeping</p>	<ul style="list-style-type: none"> • Discuss how to deal with accidental damage, if any, caused while carrying out the work

<p>Theory: 5 hours</p> <p>Practical: 15 hours</p> <p>Corresponding NOS: RSC/N5001</p>	
<p>Post housekeeping Activities</p> <p>Theory: 5 hours</p> <p>Practical: 15 hours</p> <p>Corresponding NOS: RSC/N5001</p>	<ul style="list-style-type: none"> • Identify that there is no oily substance on the floor to avoid slippage • Identify no scrap material is lying around • Discuss maintenance and storage of housekeeping equipment and supplies • Discuss workplace procedures to deal with any accidental damage caused during the cleaning process
<p>General Responsibility</p> <p>Theory: 5 hours</p> <p>Practical: 15 hours</p> <p>Corresponding NOS: RSC/N5001</p>	<ul style="list-style-type: none"> • List the schedules and records for housekeeping duty
<p>Reporting, Recording and Documentation</p> <p>Theory: 5 hours</p> <p>Practical: 15 hours</p> <p>Corresponding NOS: RSC/N5002</p>	<ul style="list-style-type: none"> • Discuss reporting procedures as prescribed by the company • Discuss the completion of documentation which should be completed relating to one's role • Discuss how the final document meets with the requirements of the persons who requested it or make any amendments accordingly • Identify that documents are available to all appropriate authorities to inspect

<p>Information Security</p> <p>Theory: 5 hours</p> <p>Practical: 15 hours</p> <p>Corresponding NOS: RSC/N5002</p>	<ul style="list-style-type: none"> • List requests for information in an appropriate manner whilst following organizational procedures
<p>Inspection, Analysing and Reporting</p> <p>Theory: 5 hours</p> <p>Practical: 15 hours</p> <p>Corresponding NOS: RSC/N5003</p>	<ul style="list-style-type: none"> • Identify that the total range of checks are regularly and consistently performed • 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 • Analyse the Record of results of action taken • Analyse effectiveness of action taken • List reporting procedures where the cause of defect cannot be identified
<p>Problem Identification and Escalation</p> <p>Theory: 5 hours</p> <p>Practical: 10 hours</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

Corresponding NOS: RSC/N5004	
Necessary Action Theory: 5 hours Practical: 10 hours Corresponding NOS: RSC/N5004	<ul style="list-style-type: none"> • Consider possible reasons for identification of problems • Consider applicable corrections and formulate corrective action • Identify action in a timely manner • Identify corrective action • Consider if corrective action selected is viable and practical • Discuss if correct solution is identified to an identified problem • Discuss that no delays should be caused as a result of failure to take necessary action

Quality Control Inspector- Visual Inspection - Semesters 4-5

Modules	Topics/Expected Key Learning outcomes
Introduction Theory: 5 hours	<ul style="list-style-type: none"> • List the benefits provided by the Rubber Industry. • Summarise the role and the importance of the Rubber Industry.

<p>Practical: 00 hours</p> <p>Corresponding NOS: Bridge Module</p>	<ul style="list-style-type: none"> • Paraphrase information (evidence, articles, etc.) regarding Rubber Industry. • Categorise various services and sub-sectors in the Rubber Industry. • Describe the key emerging trends in the Rubber Industry. • List a few major organisations in the Rubber Industry • Compare the current and the projected markets, in India and abroad. • Provide a few examples of current and upcoming trends in demand for rubber products • Classify the skills and competencies along with a career path for a Tyre Building Operator-Passenger Vehicles
<p>Gender and PwD Sensitisation</p> <p>Theory: 5 hours</p> <p>Practical: 00 hours</p> <p>Corresponding NOS: Bridge Module</p>	<ul style="list-style-type: none"> • Explain the concept of gender identity, roles and expressions of an individual • Recognise the difference and diversity among genders • Devise ways to get rid of discrimination on the basis of gender • Practise using gender-neutral/gender-inclusive terms to make everybody feel important and a part of the organisation • Implement strict laws to prevent sexual harassment towards the opposite gender • Spread the idea of equal payment, opportunities and just appraisal as a norm • Inform about the job roles that can be performed by PwD • Describe proper attitude towards Persons with disability • Prioritise strict laws to prevent workplace bullying, physical, and verbal abuse • Practise using of relevant and assistive technology
<p>Inspection</p> <p>Theory: 10 hours</p> <p>Practical: 30 hours</p> <p>Corresponding NOS: RSC/N1701</p>	<ul style="list-style-type: none"> • Discuss specific inspection • Summarise the results correctly • Discuss the causes of defects to maintain product quality

<p>Pre housekeeping activities</p> <p>Theory: 10 hours</p> <p>Practical: 20 hours</p> <p>Corresponding NOS: RSC/N5001</p>	<ul style="list-style-type: none"> • List the material requirements for cleaning the areas inspected, by considering risk, time, efficiency and type of stain • Recognise the cleaning equipment is in proper working condition • Discuss the suitable alternatives for cleaning the areas in case the appropriate equipment and materials are not available and inform the appropriate person • Discuss cleaning activity informing affected people • Recognise if there is adequate ventilation for the work being carried out • List the personal protective equipment required for the cleaning method and materials being used
<p>Operations To carry out housekeeping</p> <p>Theory: 5 hours</p> <p>Practical: 15 hours</p> <p>Corresponding NOS: RSC/N5001</p>	<ul style="list-style-type: none"> • Discuss how to deal with accidental damage, if any, caused while carrying out the work
<p>Post housekeeping Activities</p> <p>Theory: 5 hours</p> <p>Practical: 15 hours</p> <p>Corresponding NOS: RSC/N5001</p>	<ul style="list-style-type: none"> • Identify that there is no oily substance on the floor to avoid slippage • Identify no scrap material is lying around • Discuss maintenance and storage of housekeeping equipment and supplies • Discuss workplace procedures to deal with any accidental damage caused during the cleaning process

<p>General Responsibility</p> <p>Theory: 5 hours</p> <p>Practical: 15 hours</p> <p>Corresponding NOS: RSC/N5001</p>	<ul style="list-style-type: none"> • List the schedules and records for housekeeping duty
<p>Reporting, Recording and Documentation</p> <p>Theory: 5 hours</p> <p>Practical: 15 hours</p> <p>Corresponding NOS: RSC/N5002</p>	<ul style="list-style-type: none"> • Discuss reporting procedures as prescribed by the company • Discuss the completion of documentation which should be completed relating to one's role • Discuss how the final document meets with the requirements of the persons who requested it or make any amendments accordingly • Identify that documents are available to all appropriate authorities to inspect
<p>Information Security</p> <p>Theory: 5 hours</p> <p>Practical: 15 hours</p> <p>Corresponding NOS: RSC/N5002</p>	<ul style="list-style-type: none"> • List requests for information in an appropriate manner whilst following organizational procedures
<p>Inspection, Analysing and Reporting</p> <p>Theory: 5 hours</p> <p>Practical: 15 hours</p> <p>Corresponding NOS: RSC/N5003</p>	<ul style="list-style-type: none"> • Identify that the total range of checks are regularly and consistently performed • 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 • Analyse the Record of results of action taken • Analyse effectiveness of action taken

	<ul style="list-style-type: none"> List reporting procedures where the cause of defect cannot be identified
<p>Problem Identification and Escalation</p> <p>Theory: 5 hours</p> <p>Practical: 15 hours</p> <p>Corresponding NOS: RSC/N5004</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
<p>Necessary Action</p> <p>Theory: 5 hours</p> <p>Practical: 15 hours</p> <p>Corresponding NOS: RSC/N5004</p>	<ul style="list-style-type: none"> Consider possible reasons for identification of problems Consider applicable corrections and formulate corrective action Identify action in a timely manner Identify corrective action Consider if corrective action selected is viable and practical Discuss if correct solution is identified to an identified problem Discuss that no delays should be caused as a result of failure to take necessary action

Modules	Topics/Expected Key Learning outcomes
<p>Introduction</p> <p>Theory: 5 hours</p> <p>Practical: 00 hours</p> <p>Corresponding NOS: Bridge Module</p>	<ul style="list-style-type: none"> • Importance of Rubber Sector • Role and responsibility of Material Handling and Storage Operator
<p>Performing rubber product loading and unloading activity</p> <p>Theory: 10 hours</p> <p>Practical: 30 hours</p> <p>Corresponding NOS: RSC/ N3301</p>	<ul style="list-style-type: none"> • Understand loading/unloading operation using various tools and equipment • Learn handling of chemicals, ingredients, prepared compound mix, semi-finished products and finished products • Learn to give response to emergencies, for example, fire, system failures and manual intervention to avoid disasters • Use knowledge of record maintenance • Learn to set up hand gear and distinct machineries utilized in loading/unloading operation ready before starting loading/unloading • Examine the scheduling sector plan an ensure availability of material, compound mix, semi-finished and finished items to be loaded/unloaded • Learn to schedule the completion of loading/unloading of material within the provided timeframe • Prepare examination of material on the basis of random picking of material in accordance with the organization's regulations • Learn to point out the directions for making the space available for the unloaded material • Assemble the placing/storing the harmed/declined material at an appropriate space • Use approved gear and tools for loading/unloading/shifting the material • Produce first aid treatment to manage any wound, cut, or sprain in the duration of lifting the material • Learn to adhere to health, safety, environmental regulations as per international/national level or the company level • Learn to comply with the direction of safety department to avoid spillages which may influence the

	health and safety of oneself or the habitat in the specified area
<p>Carry out rubber product assembling and packaging</p> <p>Theory: 10 hours</p> <p>Practical: 30 hours</p> <p>Corresponding NOS: RSC/N3302</p>	<ul style="list-style-type: none"> • Understand proper assembling procedures and techniques • Assembling different components of rubber products • Working knowledge of defects on products to be assembled • Learn to classify products for different packing requirement, for example products are packed as individual pieces, in number, by actual weights or in Length, by average weight etc. • List implications of inappropriate waste disposal • Learn to set up specifications for the machine in accordance with the company's SOP • Examine the product cautiously for and abnormalities • Learn to set up the OK stamp or release tags to be available on the products going to be assembled • Learn to set up the availability of packaging material in accordance with the plan • Assemble the products in accordance with the regulations • Arrange for the transporting of the assembled product to the specified area • Develop assembled product stacking as it is essential to prevent any decay so stacking height should be in accordance with the SOP for the specific assembled product • Learn to outline any issues faces while arranging the parts • Learn to support the assistants to execute the packaging appropriately as per the regulations from technical and check particular customer items for compliance • Learn to manipulate documents of packing done in a singular shift, quantity of the product received for packaging, quantity of the packed material moved to the shipment sector, quantity of packaging material utilized in stock and needed • Tell the designated person for the storage needed for the packed product • Learn to adhere to health, safety, environmental regulations as per international/national level or the company level (SOP)

	<ul style="list-style-type: none"> • Separate waste material securely in accordance with the SOP
<p>Undertake storage of rubber products</p> <p>Theory: 10 hours</p> <p>Practical: 20 hours</p> <p>Corresponding NOS: RSC/ /N3303</p>	<ul style="list-style-type: none"> • Understand storage operation using various tools and equipment • Learn preliminary knowledge and understanding of material safety data of each and every chemical • Understand cleanliness and safety requirements for storage of material at different stages of production • Describe the process and importance of visual quality checks • Use knowledge of key properties of ingredients, compounds and products which could be affected by improper handling and storage • Use knowledge of appropriate batch sizes with respect to appropriate material • Arrange hand tools and distinct gear utilized in material handling to be ready prior to storage • Examine the cleanliness of the storage sector • Learn to comply FIFO by timely examination and relocating the material for effortless dispatch • Examine the paper record/ written directions or information received from the prominent departments' end with the material • Learn to set up the completion of loading/unloading of material within the Oprovided timeframe • Assemble the appropriate stacking of material • Learn to set up the organization procedure for inflow and outflow of raw material from the storage sector is compiled to • Develop that all the material stored is recognized suitably with all the prominent information • Learn to ensure that held up area is clear from all red tag/hold material as soon as possible to prevent any misuse • Use approved material handling gear and machineries • Learn to comply with all the safety norms (like using protective gloves and shoes, safety masks, etc) • Learn to adhere to health, safety, environmental regulations as per international/national level or the company level • Learn to comply with the direction of safety department to avoid spillages which may influence the health and safety of oneself or the habitat in the specified area

<p>Undertake rubber product dispatch activities</p> <p>Theory: 10 hours</p> <p>Practical: 20 hours</p> <p>Corresponding NOS: RSC/ /N3304</p>	<ul style="list-style-type: none"> • Proper procedure of dispatch of final product • Use knowledge of different transport service providers and courier service provider • Use knowledge of effective use of space inside the dispatch vehicle • Importance of maintaining cordial relations with customers • Use knowledge of first aid treatment to respond to injuries • Explain the importance of effective communication with helpers for dispatch of the material and organizing them in the allotted space • Learn to compose the order sheet from the prominent sector in writing duly approved and signed by the designated authority • Assemble the transportation or courier services in accordance with the need • Examine the truck/any other carrier of goods for any nails or any poking objects to avoid any damage from heat/moisture • Assemble the trolleys/forklift and other tools needed for shifting the product from one place to another and for loading it on a dispatch vehicle • Learn to comply with all particular customer products (like number of pieces and their identifications complete with all the extra items) while dispatch • Develop appropriate documents of the information of completed order like quantity, time, mode, details of the transport used, courier details and charging of the orders left to deliver • Tell the consumer and the designated authority for any postponement in dispatch • Use first aid knowledge for managing any • Learn to adhere to health, safety, environmental regulations as per international/national level or the company level
<p>Health and Safety</p> <p>Theory: 5 hours</p> <p>Practical: 10 hours</p> <p>Corresponding NOS: Bridge Module</p>	<ul style="list-style-type: none"> • Identify different methods of first aid. • Perform first aid. • Understand CPR. • Perform CPR in case of emergency

<p>Carry out housekeeping in rubber product manufacturing</p> <p>Theory: 5 hours</p> <p>Practical: 15 hours</p> <p>Corresponding NOS: RSC/N5001</p>	<ul style="list-style-type: none"> • Understand the levels of hygiene required by workplace and why it is important to maintain them during your work • List the correct method for cleaning equipment and/or machinery used during your work • Explain the importance of following manufacturer's instructions on cleaning agents • List the importance of applying treatments evenly and the effect of not doing this • Explain the method to check the treated surface and equipment on completion of cleaning • Understand the escalation procedures for soils or stains that could not be removed • Examine the area while keeping numerous surfaces in mind • Learn to choose the appropriate substitutes for disinfecting the areas if the suitable machinery and materials are not present and notify the suitable person • Learn to show the proper signage for the work being executed • Use personal protective gear needed for the cleaning technique and materials being utilized • Develop cleaning activities without disrupting other people • Learn to outline the suitable authority about any issues in executing your work • Recognize and tell the suitable authority any extra cleansing needed that is outside one's duty or skill • Learn to set up for no oily material to be on the floor to prevent spillage • Learn to comply with workplace policies to handle any accidental harm happened while the cleaning procedure • Develop the removal of used and unused solutions as per producer's directions, and clean the gear thoroughly • Develop plans and documents for housekeeping role
<p>Carry out reporting and documentation</p> <p>Theory: 5 hours</p> <p>Practical: 15 hours</p>	<ul style="list-style-type: none"> • List different methods of recording information • Understand company procedure for filling/maintaining up the documents • Learn how to maintain complete documentation accurately and within agreed timescales • Explain procedures to maintain confidentiality of information

<p>Corresponding NOS: RSC/N5002</p>	<ul style="list-style-type: none"> • Understand the reporting procedures to followed before disclosing information to any outside party • Learn to outline data/issues/accidents as relevant in a timely way • Learn to comply with the outlining policies as per the organization • Recognize reports to be finished in accordance with one's duty • Prepare all reports within assigned time as per organization's policies • Learn to ensure that documents are present in front of all proper authorities to examine • Tell the suitable authority of queries for information collected
<p>Carry out quality checks</p> <p>Theory: 5 hours</p> <p>Practical: 15 hours</p> <p>Corresponding NOS: RSC/N5003</p>	<ul style="list-style-type: none"> • Explain the importance of quality control procedures • Understand proper procedure for selecting the material/product and performing quality checks without affecting the material • Identify the availability and use of monitoring and measuring devices • Identify the need to report within the stipulated time • List implications (impact on internal/external customers) of defective products, materials or component • Use suitable measuring apparatus, gear, tools, accessories, etc. As needed • Recognize possible reasons for non – to quality affirmation standard • Recognize influence on finished product due to non – conformance to organization level • Evaluate effectualness of remedial action • Explain the results of the standard check accurately • Learn to outline the results of the action executed • Learn to outline alterations not covered by confirmed processes for future credit • Learn to comply with documenting processes where the reason for the defect cannot be recognized
<p>Carry out problem identification and escalation</p> <p>Theory: 5 hours</p>	<ul style="list-style-type: none"> • Explain indicators of problems • Explain the impact of operations on the final product (if applicable) • Identify the correct method for carrying out corrective actions outlined for each problem

<p>Practical: 15 hours</p> <p>Corresponding NOS: RSC/N5004</p>	<ul style="list-style-type: none"> • Explain the documentation procedure for recording such problems, as per company norms • Explain the manner in which each problem needs to be escalated • Recognize any incorrect application that may result in issues • Recognize if the issue has taken place before • Learn to set up that no postponements happen as a result of defeat in escalating issues • Use suitable materials, samples, run tests, and analyse results to identify causes to confirm suspected causes for non – conformance (where needed) • Compose action in a punctual way • Learn to outline/ record issue and remedial action in a suitable way • Learn how to assess execution of remedial action taken to confirm if the issue has been solved • Develop remedial actions for issues recognized according to the organization processes • Develop the issue within specified time • Develop the issue in a suitable way
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Practical/On the job Training component (Block II)

Finishing Operator (Tyre) - Semesters 1-2

Units	Topics/Expected Key Learning outcomes
<p>Equipment readiness</p> <p>Theory: 4 hours</p> <p>Practical: 103 hours</p> <p>Corresponding NOS: RSC/N1508</p>	<ul style="list-style-type: none"> • Practise setting parameters on the trimming machine • Practise placing the tools on a safe location

<p>Raw material Appropriateness for Preparing material, tools and machine</p> <p>Theory: 4 hours</p> <p>Practical: 102 hours</p> <p>Corresponding NOS: RSC/N1508</p>	<ul style="list-style-type: none"> • Evaluate if the finishing paint to be used is lab released
<p>Manage Health and Safety</p> <p>Theory: 4 hours</p> <p>Practical: 103 hours</p> <p>Corresponding NOS: RSC/N1508</p>	<ul style="list-style-type: none"> • Practise adherence to all safety norms (such as wearing protective gloves and shoes) • Practise compliance with health, safety, environment guidelines and regulations in accordance with international/national standards or the organizational standards • Demonstrate how fork type trimming knife should be safely handled • Practise working safely on the motorized vertical trim machines • Perform handling of the portable electric light torch properly to avoid any fire hazard due to presence of solvents – ensuring safety mesh around the bulb to protect against breakage
<p>Material and Tools Readiness</p> <p>Theory: 4 hours</p> <p>Practical: 103 hours</p> <p>Corresponding NOS: RSC/N1509</p>	<ul style="list-style-type: none"> • Evaluate the functioning of trim machine

<p>Operation to be Undertaken for finishing of tyres</p> <p>Theory: 4 hours</p> <p>Practical: 102 hours</p> <p>Corresponding NOS: RSC/N1509</p>	<ul style="list-style-type: none"> • Practise placing the tyres on rotating table; trim tyre for all vents, trim bead area and centre line flashes • Inspect the tyre for blemishes, run the finger near the bead area on the inside area of the tyre to check for any blows , blisters , cracks and lights • Perform safety checks on vertical motorized vent trimmers and trim vents while the tyre is rotating and once vents trim are complete, trim flashes and carry out inspection • Use soft buffing machine to remove surface blemish such as cracks , blisters and apply rag to camouflage the buffed area • Practise carrying out final finishing for OK products and mark the tyre with finishing operator's assigned number for traceability • Demonstrate how to place the properly finished tyres ,code and size wise, in the designated area as per first in first out basis • Perform collection of all waste material (trims and flashes) in the designated waste bins • Manage product traceability records of the tyre
<p>Pre housekeeping activities</p> <p>Theory: 4 hours</p> <p>Practical: 103 hours</p> <p>Corresponding NOS: RSC/N5001</p>	<ul style="list-style-type: none"> • Perform inspection of the area while taking into account various surfaces • Practise the sequence for cleaning the area to avoid re-soiling clean areas and Surfaces • Determine the appropriate signage for the work being conducted
<p>Operations To carry out housekeeping</p> <p>Theory: 4 hours</p>	<ul style="list-style-type: none"> • Use the correct cleaning method for the work area, type of soiling and surface • Evaluate cleaning activity without disturbing others

<p>Practical: 102 hours</p> <p>Corresponding NOS: RSC/N5001</p>	<ul style="list-style-type: none"> • Report to the appropriate person any difficulties in carrying out your work • Report through identification to the appropriate person any additional cleaning required that is outside one's responsibility or skill
<p>Post housekeeping activities</p> <p>Theory: 4 hours</p> <p>Practical: 102 hours</p> <p>Corresponding NOS: RSC/N5001</p>	<ul style="list-style-type: none"> • Undertake assurance of completion of work leaving the area clean and dry, meeting requirements • Review the return of equipment, materials and personal protective equipment that were used to the right places making sure they are clean, safe and securely stored • Demonstrate disposal of the waste garnered from the activity in an appropriate manner • Demonstrate disposal of used and un-used solutions according to manufacturer's instructions, and clean the equipment thoroughly
<p>General Responsibility</p> <p>Theory: 4 hours</p> <p>Practical: 102 hours</p> <p>Corresponding NOS: RSC/N5001</p>	<ul style="list-style-type: none"> • Analyse any necessary supplies or consumables
<p>Reporting, Recording and Documentation</p> <p>Theory: 4 hours</p> <p>Practical: 102 hours</p> <p>Corresponding NOS: RSC/N5002</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 • Demonstrate the recording of details accurately in an appropriate format • Practise completion of all documentation within stipulated time according to company procedure

<p>Information Security</p> <p>Theory: 4 hours</p> <p>Practical: 102 hours</p> <p>Corresponding NOS: RSC/N5002</p>	<ul style="list-style-type: none"> • Practise Informing the appropriate authority of requests for information received
<p>Inspection, analysing and reporting</p> <p>Theory: 4 hours</p> <p>Practical: 102 hours</p> <p>Corresponding NOS: RSC/N5003</p>	<ul style="list-style-type: none"> • Use appropriate measuring instruments, equipment, tools, accessories etc.as required • Evaluating the need for action to ensure that problems do not recur • Demonstrate corrective action to address problem • Practise effectiveness of corrective action • Interpret the results of the quality check correctly • Use results of the findings with QC in charge/appropriate authority • Use the results of the findings within stipulated time • Practise adjustments not covered by established procedures for future reference
<p>Problem Identification and Escalation</p> <p>Theory: 4 hours</p> <p>Practical: 102 hours</p> <p>Corresponding NOS: RSC/N5004</p>	<ul style="list-style-type: none"> • Practise no delays as a result of failure to escalate problems • Demonstrate problem as per laid down by escalation matrix • Evaluate the problem within stipulated time • Analyse the problem in an appropriate manner • Evaluate that no delays are caused as a result of failure to escalate problems
<p>Necessary Action</p> <p>Theory: 4 hours</p>	<ul style="list-style-type: none"> • Use appropriate materials and sample, conduct tests and evaluate results to establish reasons to confirm suspected reasons for non-conformance (where required)

<p>Practical: 102 hours</p> <p>Corresponding NOS: RSC/N5004</p>	<ul style="list-style-type: none"> • Demonstrate the ways to Communicate problem/remedial action to appropriate parties • Use corrective action in a timely manner • Use corrective action for problems identified according to the company Procedures • Practise reporting/documenting problem and corrective action in an appropriate manner • Evaluate implementation of corrective action taken to determine if the problem has been resolved • Use corrective action for problems identified according to the company procedures
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Quality Control Inspector-Dimension check - Semesters 2-3

Units	Topics/Expected Key Learning outcomes
<p>Sample Collection</p> <p>Theory: 4 hours</p> <p>Practical: 120 hours</p> <p>Corresponding NOS: RSC/N1801</p>	<ul style="list-style-type: none"> • Practise collecting sample from batch as per sampling plan
<p>Dimension Check</p> <p>Theory: 4 hours</p> <p>Practical: 120 hours</p> <p>Corresponding NOS: RSC/N1801</p>	<ul style="list-style-type: none"> • Practise keeping tools like calipers & gauges duly calibrated/validated/verified and accessories like calculator ready before starting the check as per SOP • Use correct tools and follow standard method for checking • Assess that the material is not altered in any way during checking • Perform specific inspection • Practise taking up results of the findings with QC in charge/appropriate authority

<p>Health & Safety</p> <p>Theory: 4 hours</p> <p>Practical: 120 hours</p> <p>Corresponding NOS: RSC/N1801</p>	<ul style="list-style-type: none"> • Practise Housekeeping and safety in inspection area • Practise adherence to safety norms (like wearing protective goggles etc.) • Perform compliance with applicable environmental, waste management and disposal regulations • Perform material and energy audit reports • Evaluate material audit report to decipher excessive consumption of material and water • Practise making reports on malfunctioning (fumes/sparks/emission/vibration/noise) and lapse in maintenance of equipment
<p>Pre housekeeping activities</p> <p>Theory: 4 hours</p> <p>Practical: 120 hours</p> <p>Corresponding NOS: RSC/N5001</p>	<ul style="list-style-type: none"> • Perform inspection of the area while taking into account various surfaces • Practise the sequence for cleaning the area to avoid re-soiling clean areas and Surfaces • Determine the appropriate signage for the work being conducted
<p>Operations To carry out housekeeping</p> <p>Theory: 4 hours</p> <p>Practical: 120 hours</p> <p>Corresponding NOS: RSC/N5001</p>	<ul style="list-style-type: none"> • Use the correct cleaning method for the work area, type of soiling and surface • Evaluate cleaning activity without disturbing others • Report to the appropriate person any difficulties in carrying out your work • report through identification to the appropriate person any additional cleaning required that is outside one's responsibility or skill

<p>Post housekeeping Activities</p> <p>Theory: 4 hours</p> <p>Practical: 120 hours</p> <p>Corresponding NOS: RSC/N5001</p>	<ul style="list-style-type: none"> • Undertake assurance of completion of work leaving the area clean and dry, meeting requirements • Review the return of equipment, materials and personal protective equipment that were used to the right places making sure they are clean, safe and securely stored • Demonstrate disposal of the waste garnered from the activity in an appropriate manner • Demonstrate disposal of used and un-used solutions according to manufacturer's instructions, and clean the equipment thoroughly
<p>General Responsibility</p> <p>Theory: 4 hours</p> <p>Practical: 120 hours</p> <p>Corresponding NOS: RSC/N5001</p>	<ul style="list-style-type: none"> • Analyse any necessary supplies or consumables
<p>Reporting, Recording and Documentation</p> <p>Theory: 4 hours</p> <p>Practical: 120 hours</p> <p>Corresponding NOS: RSC/N5002</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 • Demonstrate the recording of details accurately in an appropriate format • Perform completion of all documentation within stipulated time according to company procedure
<p>Information Security</p> <p>Theory: 4 hours</p> <p>Practical: 120 hours</p>	<ul style="list-style-type: none"> • Practise Informing the appropriate authority of requests for information received

<p>Corresponding NOS: RSC/N5002</p>	
<p>Inspection, Analysing and Reporting</p> <p>Theory: 4 hours</p> <p>Practical: 120 hours</p> <p>Corresponding NOS: RSC/N5003</p>	<ul style="list-style-type: none"> • Use appropriate measuring instruments, equipment, tools, accessories etc.as required • Evaluate the need for action to ensure that problems do not recur • Demonstrate corrective action to address problem • Practise effectiveness of corrective action • Interpret the results of the quality check correctly • Use results of the findings with QC in charge/appropriate authority • Use the results of the findings within stipulated time • Practise adjustments not covered by established procedures for future reference
<p>Problem Identification and Escalation</p> <p>Theory: 4 hours</p> <p>Practical: 120 hours</p> <p>Corresponding NOS: RSC/N5004</p>	<ul style="list-style-type: none"> • Practise no delays as a result of failure to escalate problems • Demonstrate problem as per laid down by escalation matrix • Evaluate the problem within stipulated time • Analyse the problem in an appropriate manner • Evaluate that no delays are caused as a result of failure to escalate problems
<p>Necessary Action</p> <p>Theory: 4 hours</p> <p>Practical: 120 hours</p> <p>Corresponding NOS: RSC/N5004</p>	<ul style="list-style-type: none"> • Use appropriate materials and sample, conduct tests and evaluate results to establish reasons to confirm suspected reasons for non-conformance (where required) • Demonstrate the ways to communicate problem/remedial action to appropriate parties • Use corrective action in a timely manner • Use corrective action for problems identified according to the company procedures • Practise reporting/documenting problem and corrective action in an appropriate manner • Evaluate implementation of corrective action taken to determine if the problem has been resolved

	<ul style="list-style-type: none"> • Use corrective action for problems identified according to the company procedures
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Quality Control Inspector- Visual Inspection - Semesters 4-5

Units	Topics/Expected Key Learning outcomes
Inspection Theory: 4 hours Practical: 145 hours Corresponding NOS: RSC/N1701	<ul style="list-style-type: none"> • Perform visual inspection at specified intervals identifying surface defects like blooming, colour change, etc. as per SOP • Manage matching product colour with master sample • Demonstrate the ways in which materials should not be altered in any way during inspection • Practise monitoring rectified products to ensure that problems have been solved • Manage taking up results of the findings with QC in charge/appropriate authority to incorporate process modifications (corrective action) to avoid defects • Identify proactive action through document change (if any), process change, material change including training as per root cause analysis
Pre housekeeping activities Theory: 4 hours Practical: 145 hours Corresponding NOS: RSC/N5001	<ul style="list-style-type: none"> • Perform inspection of the area while taking into account various surfaces • Practise the sequence for cleaning the area to avoid re-soiling clean areas and Surfaces • Determine the appropriate signage for the work being conducted
Operations To carry out housekeeping Theory: 4 hours	<ul style="list-style-type: none"> • Use the correct cleaning method for the work area, type of soiling and surface • Evaluate cleaning activity without disturbing others

<p>Practical: 145 hours</p> <p>Corresponding NOS: RSC/N5001</p>	<ul style="list-style-type: none"> • Report to the appropriate person any difficulties in carrying out your work • report through identification to the appropriate person any additional cleaning required that is outside one's responsibility or skill
<p>Post housekeeping Activities</p> <p>Theory: 4 hours</p> <p>Practical: 145 hours</p> <p>Corresponding NOS: RSC/N5001</p>	<ul style="list-style-type: none"> • Undertake assurance of completion of work leaving the area clean and dry, meeting requirements • Review the return of equipment, materials and personal protective equipment that were used to the right places making sure they are clean, safe and securely stored • Demonstrate disposal of the waste garnered from the activity in an appropriate manner • Demonstrate disposal of used and un-used solutions according to manufacturer's instructions, and clean the equipment thoroughly
<p>General Responsibility</p> <p>Theory: 4 hours</p> <p>Practical: 144 hours</p> <p>Corresponding NOS: RSC/N5001</p>	<ul style="list-style-type: none"> • Analyse any necessary supplies or consumables
<p>Reporting, Recording and Documentation</p> <p>Theory: 4 hours</p> <p>Practical: 145 hours</p> <p>Corresponding NOS: RSC/N5002</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 • Demonstrate the recording of details accurately in an appropriate format • Perform completion of all documentation within stipulated time according to company procedure

<p>Information Security</p> <p>Theory: 4 hours</p> <p>Practical: 144 hours</p> <p>Corresponding NOS: RSC/N5002</p>	<ul style="list-style-type: none"> • Practise Informing the appropriate authority of requests for information received
<p>Inspection, Analysing and Reporting</p> <p>Theory: 4 hours</p> <p>Practical: 145 hours</p> <p>Corresponding NOS: RSC/N5003</p>	<ul style="list-style-type: none"> • Use appropriate measuring instruments, equipment, tools, accessories etc.as required • Evaluate the need for action to ensure that problems do not recur • Demonstrate corrective action to address problem • Practise effectiveness of corrective action • Interpret the results of the quality check correctly • Use results of the findings with QC in charge/appropriate authority • Use the results of the findings within stipulated time • Practise adjustments not covered by established procedures for future reference
<p>Problem Identification and Escalation</p> <p>Theory: 4 hours</p> <p>Practical: 145 hours</p> <p>Corresponding NOS: RSC/N5004</p>	<ul style="list-style-type: none"> • Practise no delays as a result of failure to escalate problems • Demonstrate problem as per laid down by escalation matrix • Evaluate the problem within stipulated time • Analyse the problem in an appropriate manner • Evaluate that no delays are caused as a result of failure to escalate problems
<p>Necessary Action</p> <p>Theory: 4 hours</p> <p>Practical: 145 hours</p>	<ul style="list-style-type: none"> • Use appropriate materials and sample, conduct tests and evaluate results to establish reasons to confirm suspected reasons for non-conformance (where required)

<p>Corresponding NOS: RSC/N5004</p>	<ul style="list-style-type: none"> • Demonstrate the ways to Communicate problem/remedial action to appropriate parties • Use corrective action in a timely manner • Use corrective action for problems identified according to the company Procedures • Practise reporting/documenting problem and corrective action in an appropriate manner • Evaluate implementation of corrective action taken to determine if the problem has been resolved • Use corrective action for problems identified according to the company procedures
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Material Handling and Storage Operator - Semesters 5-6

Units	Topics/Expected Key Learning outcomes
<p>Performing rubber product loading and unloading activity</p> <p>Theory: 4 hours</p>	<ul style="list-style-type: none"> • Perform loading/unloading operation using various tools and equipment • Test the chemicals, ingredients, prepared compound mix, semi-finished products and finished products

<p>Practical: 33 hours</p> <p>Corresponding NOS: RSC/ N3301</p>	<ul style="list-style-type: none"> • React quickly in case of emergencies, for example, fire, system failures and manual intervention to avoid disasters • Use knowledge of record maintenance • Set up hand gear and distinct neries utilized in loading/unloading operation ready before starting loading/unloading • Test the scheduling sector plan an ensure availability of material, compound mix, semi-finished and finished items to be loaded/unloaded • Schedule the completion of loading/unloading of material within the provided timeframe • Test the material on the basis of random picking of material in accordance with the organization’s regulations • Organize the unloaded material to manage space effectively • Assemble the placing/storing the harmed/declined material at an appropriate space • Use approved gear and tools for loading/unloading/shifting the material • Produce first aid treatment to manage any wound, cut, or sprain in the duration of lifting the material • Comply with health, safety, environmental regulations as per international/national level or the company level • Comply with the direction of safety department to avoid spillages which may influence the health and safety of oneself or the habitat in the specified area
<p>Carry out rubber product assembling and packaging</p> <p>Theory: 4 hours</p> <p>Practical: 33 hours</p>	<ul style="list-style-type: none"> • Compare various assembling procedures and techniques • Identify the most appropriate assembling procedures and techniques • Assemble different components of rubber products • Identify visual defects in the products to be assembled • Classify products for different packing requirement, for example products are packed as individual pieces, in number, by

<p>Corresponding NOS: RSC/ N3302</p>	<p>actual weights or in Length, by average weight etc.</p> <ul style="list-style-type: none"> • List implications of inappropriate waste disposal • Set up specifications for the machine in accordance with the company's SOP • Examine the product cautiously for abnormalities • Set up the release tags for the products that are going to be assembled • Set up the availability of packaging material in accordance with the plan • Assemble the products in accordance with the regulations • Arrange for the transporting of the assembled product to the specified area • Develop assembled product stacking as it is essential to prevent any decay so stacking height should be in accordance with the SOP for the specific assembled product • Outline any issues faced while arranging the parts • Support the assistants to execute the packaging appropriately as per the regulations from technical and check particular customer items for compliance • Manipulate documents of packing done in a singular shift • Inspect the quantity of the product received for packaging • Inspect the quantity of the packed material moved to the shipment sector and the packaging material utilized in stock • Tell the designated person for the storage needed for the packed product • Comply with health, safety, environmental regulations as per international/national level or the company level (SOP) • Separate waste material securely in accordance with the SOP
<p>Undertake storage of rubber products</p> <p>Theory: 4 hours</p>	<ul style="list-style-type: none"> • Inspect the storage operation using various tools and equipment • Comply to the preliminary knowledge and understanding of material safety data of each and every chemical

**Practical: 33
hours**

**Corresponding
NOS: RSC//N3303**

- Comply with cleanliness and safety requirements for storage of material at different stages of production
- Carry out visual quality checks
- Use knowledge of key properties of ingredients, compounds and products which could be affected by improper handling and storage
- Use knowledge of appropriate batch sizes with respect to appropriate material
- Arrange hand tools and distinct gear utilized in material handling to be ready prior to storage
- Examine the cleanliness of the storage sector
- Comply FIFO by timely examination and relocating the material for effortless dispatch
- Examine the paper record/ written directions or information received from the prominent departments' end with the material
- Set up the completion of loading/unloading of material within the Oprovided timeframe
- Assemble the appropriate stacking of material
- Set up the organization procedure for inflow and outflow of raw material from the storage sector is compiled to
- Develop that all the material stored is recognized suitably with all the prominent information
- Inspect the held up area and keep it clear from all red tag/hold material as soon as possible to prevent any misuse
- Use approved material handling gear and machineries
- Comply with all the safety norms (like using protective gloves and shoes, safety masks, etc.)
- Adhere to health, safety, environmental regulations as per international/national level or the company level
- Comply with the direction of safety department to avoid spillages which may influence the health and safety of oneself or the habitat in the specified area

<p>Undertake rubber product dispatch activities</p> <p>Theory: 4 hours</p> <p>Practical: 33 hours</p> <p>Corresponding NOS: RSC//N3304</p>	<ul style="list-style-type: none"> • Use proper procedure for dispatch of final product • Use knowledge of different transport service providers and courier service provider • Use knowledge of effective use of space inside the dispatch vehicle • Maintain cordial relations with customers • Use knowledge of first aid treatment to respond to injuries • Practice effective communication with helpers for dispatch of the material and organize them in the allotted space • Compose the order sheet from the prominent sector in writing duly approved and signed by the designated authority • Assemble the transportation or courier services in accordance with the need • Examine the truck/any other carrier of goods for any nails or any poking objects to avoid any damage from heat/moisture • Assemble the trolleys/forklift and other tools needed for shifting the product from one place to another and for loading it on a dispatch vehicle • Comply with all particular customer products (like number of pieces and their identifications complete with all the extra items) while dispatch • Develop appropriate documents of the information of completed order like quantity, time, mode, details of the transport used, courier details and charging of the orders left to deliver • Tell the consumer and the designated authority for any delay in dispatch • Implement first aid technique as per need • Adhere to health, safety, environmental regulations as per international/national level or the company level
<p>Health and Safety</p> <p>Theory: 4 hours</p> <p>Practical: 33 hours</p>	<ul style="list-style-type: none"> • Test different methods of first aid. • Perform first aid. • Perform CPR in case of emergency

<p>Corresponding NOS: Bridge Module</p>	
<p>Carry out housekeeping in rubber product manufacturing</p> <p>Theory: 4 hours</p> <p>Practical: 33 hours</p> <p>Corresponding NOS: RSC/N5001</p>	<ul style="list-style-type: none"> • Test the levels of hygiene required by workplace and why it is important to maintain them during your work • List the correct method for cleaning equipment and/or machinery used during your work • Examine the importance of following manufacturer's instructions on cleaning agents • List the importance of applying treatments evenly and the effect of not doing this • Inspect the treated surface and equipment on completion of cleaning • Test the procedures for soils or stains that could not be removed • Examine the area while keeping numerous surfaces in mind • Choose the appropriate substitutes for disinfecting the areas if the suitable machinery and materials are not present and notify the suitable person • Inspect the proper signage for the work being executed • Use personal protective gear needed for the cleaning technique and materials being utilized • Develop cleaning activities without disrupting other people • Test the outline of the suitable authority about any issues in executing your work • Tell the suitable authority any extra cleansing needed that is outside one's duty or skill • Set up an oil free surface to prevent spillage • Comply with workplace policies to handle any accidental harm happened while the cleaning procedure • Develop the removal of used and unused solutions as per producer's directions, and clean the gear thoroughly

	<ul style="list-style-type: none"> • Develop plans and documents for housekeeping role
<p>Carry out reporting and documentation</p> <p>Theory: 4 hours</p> <p>Practical: 33 hours</p> <p>Corresponding NOS: RSC/N5002</p>	<ul style="list-style-type: none"> • List different methods of recording information • Comply with company procedure for filling/maintaining up the documents • Maintain complete documentation accurately and within agreed timescales • Perform procedures to maintain confidentiality of information • Follow procedures before disclosing information to any outside party • Outline data/issues/accidents as relevant in a timely way • Comply with the outlining policies as per the organization • Recognize reports to be finished in accordance with one's duty • Prepare all reports within assigned time as per organization's policies • Prepare the documents to present them in front of the proper authorities • Tell the suitable authority of queries for information collected
<p>Carry out quality checks</p> <p>Theory: 4 hours</p> <p>Practical: 33 hours</p> <p>Corresponding NOS: RSC/N5003</p>	<ul style="list-style-type: none"> • Perform quality control procedures • Follow proper procedure for selecting the material/product • Perform quality checks without affecting the material • Identify the availability and use of monitoring and measuring devices • Identify the need to report within the stipulated time • List implications (impact on internal/external customers) of defective products, materials or component • Use suitable measuring apparatus, gear, tools, accessories, etc. as needed • Recognize possible reasons for non – to quality affirmation standard • Recognize influence on finished product due to non – conformance to organization level

	<ul style="list-style-type: none"> • Perform the remedial action in an effective manner • Examine the results of the standard check accurately • Outline the results of the action executed • Outline alterations not covered by confirmed processes for future credit • Comply with the documenting processes where the reason for the defect cannot be recognized
<p>Carry out problem identification and escalation</p> <p>Theory: 4 hours</p> <p>Practical: 33 hours</p> <p>Corresponding NOS: RSC/N5004</p>	<ul style="list-style-type: none"> • Test the indicators of problems • Identify the impact of operations on the final product (if applicable) • Identify the correct method for carrying out corrective actions outlined for each problem • Perform the documentation procedure for recording such problems, as per company norms • Identify the problems that needs to be escalated • Identify any incorrect application that may result in issues • Recognize if the issue has taken place before • Learn to set up that no postponements happen as a result of defeat in escalating issues • Use suitable materials, samples, run tests, and analyse results to identify causes to confirm suspected causes for non – conformance (where needed) • Compose action in a punctual way • Outline issues and remedial action in a suitable way • Assess the execution of remedial action taken, to confirm if the issue has been solved • Develop remedial actions for issues recognized according to the organization processes • Develop the issue within specified time • Develop the issue in a suitable way

Assessment strategy (Basic training and On the Job Training):

1. Criteria for assessment for each Qualification Pack will be created by the Sector Skill Council. Each Performance Criterion (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. Assessment will be conducted for all compulsory NOS, and where applicable, on the selected elective/option NOS/set of NOS.
4. Individual assessment agencies will create unique question papers for theory part for each candidate at each examination/training center (as per assessment criteria provided in the Qualification Packs and Model Curricula for all four job roles.
5. Individual assessment agencies will create unique evaluations for skill practical for every student at each examination/training center based on this criterion.
6. To pass the Qualification Pack, every trainee should score a minimum of 70% of aggregate marks to successfully clear the assessment.
7. In case of unsuccessful completion, the trainee may seek reassessment on the Qualification Pack.
8. The assessment of candidates will be conducted at NOS level.
9. Assessment criterion has been defined for each NOS and it includes both theoretical and practical skills on which the candidate will be assessed.
10. Practical knowledge is tested through assessor driven evaluation, Situational Judgment Tests and Simulations. A mix of the three is used to evaluate the trainee on his practical knowledge of the QP.
11. The candidate is assessed on skills, knowledge and behavioural aspects.

Annexure A

Attachment : List of Tools and Equipment

- Rotary vibrator
- Surf finishers
- Mass finishing machines
- Whiteboard
- Marker or blackboard

- Chalk
- Duster
- Laptop/PC
- Projector or flipcharts
- Participant Handbook
- Copies of hand-outs
- Rubber product quality lab
- Material handling equipment
- Rubber product specific testing equipment, like rubber hardness tester, tensile tester, rebound tester, ozone tester, oven, furnace, melting point tester, ash content testing equipment, mooney viscometer
- Rubber hardness tester
- Tensile tester
- Rebound tester
- Ozone tester
- Oven
- Furnace
- Melting point tester
- Ash content testing equipment

- Laptop
- Whiteboard
- Marker
- Projector
- Power point presentation
- LCD screen
- Computer
- Pointer
- Trucks
- Pellets
- Conveyors
- Cranes
- Hand trucks
- Pallet jack
- Stacker
- Platform truck
- Tractor trailer
- Dock leveler
- Balancer
- Skids
- Slip sheets
- Cartons (different sizes)
- Tote pans
- Bulk load containers
- Intermodal containers
- Palletizers
- Flex baskets
- Strapping tensioners
- Carton sealers
- Cello tape
- Polyester strap
- Shrink wrap machine
- Strapping locker
- Strapping machine
- Stretch wrapper
- Weighing scales
- Pallet rack
- Drive-through rack
- Shelves
- CPR Mannequin
- First Aid Kit
- Reporting formats
- Registers
- Files
- Quality manuals
- Digital thermometers
- Moulds

- Calipers
- Bore gages
- Fixed gages
- Micrometers
- Protractors
- Indicators and comparators
- Air metrology instruments
- Ring gages
- Length gages
- Materials for moulding such as rubber mix
- Mould release agent
- Thread gages