



## QUALIFICATION FILE

### Machine Operator - Injection Moulding Plastic

- Short Term Training (STT)  Long Term Training (LTT)  Apprenticeship  
 Upskilling  Dual/Flexi Qualification  For ToT  For ToA
- General  Multi-skill (MS)  Cross Sectoral (CS)  Future Skills  OEM

NCrF/NSQF Level: 4

Submitted By:

Rubber, Chemical & Petrochemical Skill Development Council (RCPSDC)

304, 3rd Floor, Rectangle One, Saket District Center,

New Delhi – 110017 (India)

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Section 1: Basic Details

1.	<b>Qualification Name</b>	<b>Machine Operator - Injection Moulding Plastic</b>																						
2.	<b>Sector/s</b>	<b>Rubber</b>																						
3.	<b>Type of Qualification:</b> <input type="checkbox"/> New <input checked="" type="checkbox"/> Revised <input type="checkbox"/> Has Electives/Options <input type="checkbox"/> OEM	<b>NQR Code &amp; version of existing/previous qualification:</b> <i>(change to previous, once approved)</i>	<b>Qualification Name of existing/previous version:</b>																					
4.	<b>a. OEM Name</b> <b>b. Qualification Name</b> <i>(Wherever applicable)</i>																							
5.	<b>National Qualification Register (NQR) Code &amp; Version</b> <i>(Will be issued after NSQC approval)</i>	2022/CP/RCPSDC/06960	<b>6. NCrF/NSQF Level: 4</b>																					
7.	<b>Award (Certificate/Diploma/Advance Diploma/ Any Other)</b> <i>(Wherever applicable specify multiple entry/exits also &amp; provide details in annexure)</i>	Certificate																						
8.	<b>Brief Description of the Qualification</b>	The individual at work is responsible for operating the injection moulding machine to produce good quality products from thermoplastic materials.																						
9.	<b>Eligibility Criteria for Entry for Student/Trainee/Learner/Employee</b>	<b>a. Entry Qualification &amp; Relevant Experience:</b> <table border="1" style="margin-left: 20px;"> <thead> <tr> <th>S. No.</th> <th>Academic/Skill Qualification (with Specialization - if applicable)</th> <th>Required Experience (with Specialization - if applicable)</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>Completed 1<sup>st</sup> year of 3-year diploma (after 10<sup>th</sup>) and pursuing regular diploma</td> <td></td> </tr> <tr> <td>2</td> <td>10<sup>th</sup> Class Pass plus 1-year NTC/ NAC</td> <td></td> </tr> <tr> <td>3</td> <td>10<sup>th</sup> Class pass</td> <td>2 years relevant</td> </tr> <tr> <td>4</td> <td>8<sup>th</sup> grade pass plus 2-year NTC plus 1 year NAC</td> <td></td> </tr> <tr> <td>5</td> <td>8<sup>th</sup> Pass plus 1-year NTC plus 1-year NAC plus NITC</td> <td></td> </tr> <tr> <td>6</td> <td>Certificate NSQF level 3 (Assistant Machine Operator – Injection Moulding Plastic) with minimum education as 5<sup>th</sup> pass</td> <td>2 years relevant</td> </tr> </tbody> </table>		S. No.	Academic/Skill Qualification (with Specialization - if applicable)	Required Experience (with Specialization - if applicable)	1	Completed 1 <sup>st</sup> year of 3-year diploma (after 10 <sup>th</sup> ) and pursuing regular diploma		2	10 <sup>th</sup> Class Pass plus 1-year NTC/ NAC		3	10 <sup>th</sup> Class pass	2 years relevant	4	8 <sup>th</sup> grade pass plus 2-year NTC plus 1 year NAC		5	8 <sup>th</sup> Pass plus 1-year NTC plus 1-year NAC plus NITC		6	Certificate NSQF level 3 (Assistant Machine Operator – Injection Moulding Plastic) with minimum education as 5 <sup>th</sup> pass	2 years relevant
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6	Certificate NSQF level 3 (Assistant Machine Operator – Injection Moulding Plastic) with minimum education as 5 <sup>th</sup> pass	2 years relevant																						
		<b>b. Age: 18 years</b>																						

10.	<b>Credits Assigned to this Qualification, Subject to Assessment</b> (as per National Credit Framework (NCrF))	17	<b>11. Common Cost Norm Category (I/II/III)</b> (wherever applicable): I																				
12.	<b>Any Licensing requirements for Undertaking Training on This Qualification</b> (wherever applicable)	NA																					
13.	<b>Training Duration by Modes of Training Delivery</b> (Specify Total Duration as per selected training delivery modes and as per requirement of the qualification)	<input checked="" type="checkbox"/> Offline <input type="checkbox"/> Online <input type="checkbox"/> Blended <table border="1"> <thead> <tr> <th>Training Delivery Modes</th> <th>Theory (Hours)</th> <th>Practical (Hours)</th> <th>OJT Mandatory (Hours)</th> <th>OJT Recommended (Hours)</th> <th>Total (Hours)</th> </tr> </thead> <tbody> <tr> <td>Classroom (offline)</td> <td>162:00</td> <td>288:00</td> <td>60:00</td> <td>--</td> <td>510:00</td> </tr> <tr> <td>Online</td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> </tbody> </table> (Refer Blended Learning Annexure for details)				Training Delivery Modes	Theory (Hours)	Practical (Hours)	OJT Mandatory (Hours)	OJT Recommended (Hours)	Total (Hours)	Classroom (offline)	162:00	288:00	60:00	--	510:00	Online					
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14.	<b>Aligned to NCO/ISCO Codes</b> (if no code is available mention the same)	NCO-2015/8142.0501																					
15.	<b>Progression path after attaining the qualification</b> (Please show Professional and Academic progression)	Supervisor Injection Moulding Plastic																					
16.	<b>Other Indian languages in which the Qualification &amp; Model Curriculum are being submitted</b>	Hindi																					
17.	<b>Is similar Qualification(s) available on NQR-if yes, justification for this qualification</b>	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No URLs of similar Qualifications:																					
18.	<b>Is the Job Role Amenable to Persons with Disability</b>	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If "Yes", specify applicable type of Disability:																					
19.	<b>How Participation of Women will be Encouraged</b>	No gender sensitization																					
20.	<b>Are Greening/ Environment Sustainability Aspects Covered</b> (Specify the NOS/Module which covers it)	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No 1. RSC/N5604: Implement ethical and sustainable practices at the workplace																					
21.	<b>Is Qualification Suitable to be Offered in Schools/Colleges</b>	Schools <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Colleges <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No																					
22.	<b>Name and Contact Details of Submitting / Awarding Body SPOC</b> (In case of CS or MS, provide details of both Lead AB & Supporting ABs)	Name: Mr. Saif Mohammad Email: ceo@rcpsdc.in Website: https://www.rcpsdc.in Contact No.: 011 – 41009347-48																					
23.	<b>Final Approval Date by NSQC: 25/08/2022</b>	24. <b>Validity Duration: 3 Years</b>	25. <b>Next Review Date: 25/08/2025</b>																				

Section 2: Module Summary

NOS/s of Qualifications

(In exceptional cases these could be described as components)

Mandatory NOS/s:

Specify the training duration and assessment criteria at NOS/ Module level. For further details refer curriculum document.

**Th.-Theory Pr.-Practical OJT-On the Job Man.-Mandatory Training Rec.-Recommended Proj. - Project**

S. No	NOS/Module Name	NOS/Module Code & Version (if applicable)	Core/ Non-Core	NCrF/NSQF Level	Credits as per NCrF	Training Duration (Hours)					Assessment Marks					
						Th.	Pr.	OJT-Man.	OJT-Rec.	Total	Th.	Pr.	Proj.	Viva	Total	Weightage (%) (if applicable)
1.	Identify Injection Moulding Requirements	RSC/N8011 & V1.0	Core	4	2	30	30	-	-	60	40	60	-	-	100	20
2.	Perform Injection Moulding Operations	RSC/N8011 & V1.0	Core	4	8	80	160	-	-	240	40	60	-	-	100	20
3.	Coordinate and communicate effectively at the workplace	RSC/N5610 & V1.0	Non-core	4	1	10	20	-	-	30	40	60	-	-	100	15
4.	Carry out housekeeping	RSC/N5001 & V3.0	Non-core	4	1	10	20	-	-	30	40	60	-	-	100	10
5.	Carry out health and safety	RSC/N5007 & V3.0	Non-core	4	1	10	20	-	-	30	30	70	-	-	100	15
6.	Follow ethical and sustainable practices at the workplace	RSC/N5603 & V1.0	Non-core	4	1	10	20	-	-	30	40	60	-	-	100	10
7.	Employability Skills (30 hours)	DGT/VSQ/N0101 & V1.0	Non-core	2	1	12	18	-	-	30	20	30	-	-	50	10
8.	On Job Training	-	Core	4	2	-	-	60	-	60	-	-	-	-	-	-
<b>Duration (in Hours) / Total Marks</b>			-	-	17	<b>162</b>	<b>288</b>	<b>60</b>	-	<b>510</b>	<b>210</b>	<b>340</b>	-	-	<b>550</b>	<b>100</b>

Elective NOS/s:

S. No	NOS/Module Name	NOS/Module Code & Version (if applicable)	Core/ Non-Core	NCrF/NSQF Level	Credits as per NCrF	Training Duration (Hours)					Assessment Marks				
						Th.	Pr.	OJT-Man.	OJT-Rec.	Total	Th.	Pr.	Proj.	Viva	Total
1.															
2.															
<b>Duration (in Hours) / Total Marks</b>															

Optional NOS/s:

S. No	NOS/Module Name	NOS/Module Code & Version (if applicable)	Core/ Non-Core	NCrF/NSQF Level	Credits as per NCrF	Training Duration (Hours)					Assessment Marks				
						Th.	Pr.	OJT-Man.	OJT-Rec.	Total	Th.	Pr.	Proj.	Viva	Total
1.															
2.															
<b>Duration (in Hours) / Total Marks</b>															

Assessment - Minimum Qualifying Percentage

Please specify **any one** of the following:

**Minimum Pass Percentage – Aggregate at qualification level: 70 %** (Every Trainee should score specified minimum aggregate passing percentage at qualification level to successfully clear the assessment.)

**Minimum Pass Percentage – NOS/Module-wise: 70 %** (Every Trainee should score specified minimum passing percentage in each mandatory and selected elective NOS/Module to successfully clear the assessment.)

Section 3: Training Related

1.	<b>Trainer's Qualification and experience in the relevant sector (in years) (as per NCVET guidelines)</b>	ITI in any engineering stream with 3 years of relevant experience
2.	<b>Master Trainer's Qualification and experience in the relevant sector (in years) (as per NCVET guidelines)</b>	ITI in any engineering stream with 5 years of relevant experience
3.	<b>Tools and Equipment Required for Training</b>	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No (If "Yes", details to be provided in Annexure)

4.	<b>In Case of Revised Qualification, Details of Any Upskilling Required for Trainer</b>	
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Section 4: Assessment Related

1.	<b>Assessor's Qualification and experience in relevant sector (in years) (as per NCVET guidelines)</b>	Diploma in any engineering stream with 5 years of relevant experience
2.	<b>Proctor's Qualification and experience in relevant sector (in years) (as per NCVET guidelines)</b>	ITI/ Diploma in Science
3.	<b>Lead Assessor's/Proctor's Qualification and experience in relevant sector (in years) (as per NCVET guidelines)</b>	Diploma in any engineering stream with 7 years of relevant experience
4.	<b>Assessment Mode (Specify the assessment mode)</b>	Blended
5.	<b>Tools and Equipment Required for Assessment</b>	<input checked="" type="checkbox"/> Same as for training <input type="checkbox"/> Yes <input type="checkbox"/> No (details to be provided in Annexure-if it is different for Assessment)

Section 5: Evidence of the need for the Qualification

Provide Annexure/Supporting documents name.

1.	<b>Latest Skill Gap Study (not older than 2 years) (Yes/No):</b> Yes
2.	<b>Latest Market Research Reports or any other source (not older than 2 years) (Yes/No):</b> Yes
3.	<b>Government /Industry initiatives/ requirement (Yes/No):</b> Yes
4.	<b>Number of Industry validation provided:</b> 30
5.	<b>Estimated nos. of persons to be trained and employed:</b>
6.	<b>Evidence of Concurrence/Consultation with Line Ministry/State Departments:</b> In progress If "No", why:

Section 6: Annexure & Supporting Documents Check List

Specify Annexure Name / Supporting document file name

1.	<b>Annexure:</b> NCrF/NSQF level justification based on NCrF level/NSQF descriptors (Mandatory)	Attached
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2.	<b>Annexure:</b> List of tools and equipment relevant for qualification (Mandatory, except in case of online course)	Attached
3.	<b>Annexure:</b> Detailed Assessment Criteria (Mandatory)	Attached
4.	<b>Annexure:</b> Assessment Strategy (Mandatory)	Attached
5.	<b>Annexure:</b> Blended Learning (Mandatory, in case selected Mode of delivery is "Blended Learning")	Filled
6.	<b>Annexure:</b> Multiple Entry-Exit Details (Mandatory, in case qualification has multiple Entry-Exit)	Filled
7.	<b>Annexure:</b> Acronym and Glossary (Optional)	Attached
8.	<b>Supporting Document:</b> Model Curriculum (Mandatory – Public view)	Attached
9.	<b>Supporting Document:</b> Career Progression (Mandatory - Public view)	Attached
10.	<b>Supporting Document:</b> Occupational Map (Mandatory)	Attached
11.	<b>Supporting Document:</b> Assessment SOP (Mandatory)	Attached
12.	<b>Any other document you wish to submit:</b>	NA

## Annexure: Evidence of Level

NCrF/NSQF Level Descriptors	Key requirements of the job role/ outcome of the qualification	How the job role/ outcomes relate to the NCrF/NSQF level descriptor	NCrF/NSQF Level
<b>Professional Theoretical Knowledge/Process</b>	<p><b>Work in familiar, predictable, routine, situation of clear choice.</b></p> <ul style="list-style-type: none"> <li>Identify injection moulding requirements</li> <li>Perform injection moulding operations</li> <li>Coordinate and communicate effectively at the workplace</li> <li>Carry out housekeeping</li> <li>Carry out health and safety</li> <li>Follow ethical and sustainable practices at the workplace</li> </ul>	<ul style="list-style-type: none"> <li>A Machine Operator - Injection Moulding Plastic should be able to identify injection moulding requirements and perform injection moulding operations as per the organizational standards. The person should be familiar with the work, and perform tasks in predictable and routine environment.</li> <li>Hence Level 4</li> </ul>	4
<b>Professional and Technical Skills/ Expertise/ Professional Knowledge</b>	<p><b>Factual knowledge of field of knowledge or study</b></p> <ul style="list-style-type: none"> <li>List various types of injection moulding machines</li> <li>Discuss basic principles and operating procedure of injection moulding machine components and ancillary equipment and injection moulding production workflow sequences</li> </ul>	<ul style="list-style-type: none"> <li>A Machine Operator - Injection Moulding Plastic should be well acquainted with the factual knowledge of the operating procedure of injection moulding machine components and ancillary equipment, principles of</li> </ul>	4

	<ul style="list-style-type: none"> <li>• Define the criteria for overall process/equipment readiness for the process and equipment being used and processing behaviour of plastic material and the role of additives</li> <li>• Discuss the MSDS of plastic materials, additives, and other chemicals to be handle</li> <li>• Describe the methods of identifying the design features of product in terms of tool designing and manufacturing approach required to achieve them</li> <li>• Explain the standard procedure to verify the required consumables, plastic materials, mould, product and equipment for injection moulding process</li> <li>• Discuss various mould parts and accessories like cavity, core, cooling, temperature controller, mould temperature controller, chillers, compressors, auto loaders, auto dosers, etc. and typical quality standards at each stage of production</li> <li>• Explain the procedure to inject tubs, moulds, or cavities of machine with molten plastic material</li> <li>• Describe the methods to examine moulded product and weight and physical appearance required for quality standard</li> <li>• Explain the process of troubleshooting the injection moulding machinery and equipment</li> <li>• Discuss standard policies on behavioural etiquette, professionalism and gender sensitive service practices at workplace and hierarchy and reporting structure</li> <li>• List key helpline number</li> <li>• Explain effective ways of team coordination</li> <li>• Discuss various factors to determine the type of cleaning, level of hygiene and methods and material used for cleaning</li> <li>• Discuss health, safety and environment guidelines, legislation and regulations, knowledge of do's and don'ts and importance of Personal Protective Equipment (PPE)</li> <li>• Outline the importance of optimal utilization of resources and providing feedback for improvement</li> </ul>	<p>operation of injection moulding equipment, injection moulding production workflow sequences, etc.</p> <ul style="list-style-type: none"> <li>• Hence level 4</li> </ul>	
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	<ul style="list-style-type: none"> <li>• Explain the procedures of escalation for soils or stains that could not be removed and reporting for any unidentified soiling</li> <li>• Describe the method to check the treated surface and equipment on completion of the cleaning process and the importance of completing the activities as per the schedule</li> <li>• Explain the procedures for disposing off waste and personal protective equipment</li> <li>• Describe the correct method for cleaning equipment and/or machinery used for the cleaning activities</li> <li>• Discuss the methods for minimizing environmental damage during work and risks of health and safety at workplace</li> <li>• Explain the standard procedure to use machines, materials and equipment</li> <li>• Describe the process of reporting accidents, incidents and problems to appropriate authorities</li> <li>• Elaborate the process of contact of local emergency services, emergency evacuation process and first aid procedures to be followed</li> <li>• Describe the methods to handle hazardous materials, tools and equipment</li> <li>• Outline the importance of good housekeeping and maintaining safe and secure work area at workplace</li> <li>• Discuss harmful effect of using fuel such as diesel etc. along with alternate energy sources and alternate fuels</li> <li>• Explain water harvesting techniques and soil erosion</li> <li>• Describe the different types of waste and the different colours of dustbin for proper waste management</li> <li>• State the importance of following organizational standards and guidelines related to PwD</li> </ul>		
<p><b>Employment Readiness &amp; Entrepreneurship Skills &amp; Mind-set/Professional Skill</b></p>	<p><b>Recall and demonstrate practical skill, routine and repetitive in narrow range of application, using appropriate rule and tool, using quality concepts</b></p> <ul style="list-style-type: none"> <li>• Note down the information, and details communicated by supervisor</li> <li>• Apply problem-solving approach prior to resolve difficulties</li> </ul>	<ul style="list-style-type: none"> <li>• A Machine Operator - Injection Moulding Plastic has to perform injection moulding operations by applying professional skill at workplace as per the organizational standards. This person recalls and demonstrate practical skill and perform routine and repetitive task in narrow</li> </ul>	<p>4</p>

	<ul style="list-style-type: none"> <li>• Adopt problem-solving approach</li> <li>• Suggest solutions to improve work processes</li> <li>• Seek clarification as and when required</li> <li>• Make timely decisions for efficient utilization of resources</li> <li>• Identify cause and effect of greening of jobs</li> <li>• Maintain data on waste disposal at workplace</li> <li>• Ensure punctuality, proper utilization of time and management workload efficiently</li> <li>• Interact with all stakeholders in a polite and courteous manner</li> <li>• Provide support in dealing with stress and anxiety help colleagues to work efficiently</li> <li>• Create awareness about maintaining hygiene at workplace</li> </ul>	<p>range of application using appropriate tool.</p> <ul style="list-style-type: none"> <li>• Hence Level 4</li> </ul>	
<b>Broad Learning Outcomes/Core Skill</b>	<p><b>Language to communicate written or oral, with required clarity, skill to basic arithmetic and algebraic principles, basic understanding of social political and natural environment.</b></p> <ul style="list-style-type: none"> <li>• Read and interpret operation layouts, blue prints, job specification document operating manuals, work instructions, master samples, process alerts and procedures</li> <li>• Interact and communicate with supervisor or other organizational personnel as per requirement</li> <li>• Read and interpret job related documents</li> <li>• Read and interpret written instructions</li> <li>• Communicate with all stakeholders in a polite and courteous manner using effective communication skills</li> <li>• Write in English/regional language and complete written work with attention to detail</li> <li>• Communicate effectively with colleagues</li> </ul>	<ul style="list-style-type: none"> <li>• A Machine Operator - Injection Moulding Plastic should apply core skills such as basic understanding of social and natural environment with and knowledge of resource optimization, greening, health, hygiene and safety standards followed at workplace, etc. The person should also have written and oral communication skills with minimum clarity.</li> <li>• Hence Level 4</li> </ul>	4
<b>Responsibility</b>	<p><b>Responsibility for own work and learning.</b></p> <ul style="list-style-type: none"> <li>• Ensure preparation for moulding process</li> <li>• Carry out injection moulding process</li> <li>• Communicate effectively with colleagues and seniors</li> <li>• Coordinate with cross-functional teams</li> </ul>	<ul style="list-style-type: none"> <li>• A Machine Operator - Injection Moulding Plastic is responsible for ensuring preparation for moulding process, carrying out injection moulding process, as per the organisational standards. This person is responsible for his own work and learning</li> </ul>	4

	<ul style="list-style-type: none"> <li>• Prepare for housekeeping practices</li> <li>• Carry out housekeeping operations</li> <li>• Perform post housekeeping activities</li> <li>• Maintain safe and efficient workplace</li> <li>• Follow appropriate emergency procedures Comply with standard safety procedures Participate in safety awareness campaigns</li> <li>• Adopt resource conservation practices (Greening) Follow effective waste management practices</li> <li>• Display behavioural Skills at workplace</li> <li>• Adopt workplace practices and policies respecting gender and ability differences</li> </ul>	<ul style="list-style-type: none"> <li>• Hence Level 4</li> </ul>	
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## Annexure: Tools and Equipment (Lab Set-Up)

## List of Tools and Equipment

Batch Size: 30

S. No.	Tool / Equipment Name	Specification	Quantity for specified Batch size
1	Injection Moulding Machine	Automatic/ Semi Automatic	2
2	Mould	Preform Mould, Auxiliary Moulds (Stainless Steel/ Aluminium)	10 each
3	Hopper Machine	Auto Loader	2
4	Auxiliary Tools and machinery	Air compressor, Preform Heating oven	2 each
5	Preform Handling Tongs	Heat resistance upto 120°C	2 each
8	Stretch Rods	Adjustable Length	2
9	Neck Holding Clamps	Stainless/ Aluminium	2
10	PP Granules	Injection moulding grade	2 kg
11	HDPE Granules	Injection moulding grade	2 kg
12	PPE Kit	Helmet, Gloves, Goggles, Shoes, Earmuff	30
13	First Aid Box	As per industry standards	2
14	Fire extinguisher	As per fire grade	3

**Classroom Aids**

The aids required to conduct sessions in the classroom are:

1. Whiteboard
2. Projector
3. Computer/Laptop

4. Chairs
5. Tables
6. Whiteboard marker

Annexure: Industry Validations Summary

Provide the summary information of all the industry validations in table. This is not required for OEM qualifications.

S. No	Organization Name	Representative Name	Designation	Contact Address	Contact Phone No	E-mail ID	LinkedIn Profile (if available)
1	Sidhi Thermoformers Village Bhanokheri	Ashish Sareen	Manager Operations	Ambal	9416195379	<a href="mailto:ashusareen1@yahoo.com">ashusareen1@yahoo.com</a>	
2	Medicoplast	Paresh	Properitor	Vadodara	9638371969	<a href="mailto:medicoplastindia@gmail.com">medicoplastindia@gmail.com</a>	
3	Ahilya Enterprises	Abhishek Dubey	Proprietor	-	9148364916	<a href="mailto:avdubey.ahilya@gmail.com">avdubey.ahilya@gmail.com</a>	
4	Kira Enterprises	Abhinav Jalan	Accounts And Sales	-	8853841030	<a href="mailto:kiranenterprises91@yahoo.com">kiranenterprises91@yahoo.com</a>	
5	R J TACKLES PVT LTD.	Harishankar Das	Factory Incharbe	Howrah	7003754291	<a href="mailto:factoryrjt@gmail.com">factoryrjt@gmail.com</a>	
6	PRINCE PET	Raja Gosh	Proprietor	Kolkata	9681569912	<a href="mailto:princepet.kp@gmail.com">princepet.kp@gmail.com</a>	
7	Packaging and Recycling Consultant	Rajesh Kumar Gera	-	-	9967033107	<a href="mailto:rajeshkgera@gmail.com">rajeshkgera@gmail.com</a>	
8	Grihzon Plastic Bottle Manufacturing Pvt Ltd	Sumit Kumar	Director	Jharkhand	6370578724	<a href="mailto:grihzone.info@gmail.com">grihzone.info@gmail.com</a>	
9	Mahabir Plastic Industries	Pooja Rehlan	Head- HR	Haryana	8287955040	<a href="mailto:marketing@mahabirplastic.com">marketing@mahabirplastic.com</a>	
10	Manjushree Solutions	Smitha	HR	Assam	7811020465	<a href="mailto:smitha.b@manjushree.in">smitha.b@manjushree.in</a>	
11	Prandeep Plasto	Prangopal Saha	Proprietor	Tripura	9436451890	<a href="mailto:prangopal.saha@gmail.com">prangopal.saha@gmail.com</a>	

	Industries Pvt Ltd						
12	RFL Plastics	Arindam Modak	Project Manager	Tripura	6009905225	<a href="mailto:info@rflapp1.com">info@rflapp1.com</a>	
13	Royal fasteners	Kamlesh Jain	Director	Guwahati	6290734254	<a href="mailto:kamleshjain2006@gmail.com">kamleshjain2006@gmail.com</a>	
14	Tarashankar Platsoc Industries	Sajib Saha	Project Head	Tripura	0381-2381364	<a href="mailto:infor@tarashankar.com">infor@tarashankar.com</a>	
15	Vishnu Enterprise Pvt Ltd	Ramesh Kumar	Manager	Bihar	7484908397	<a href="mailto:vishnuenterprize520@gmail.com">vishnuenterprize520@gmail.com</a>	
16	GAIL	Manish Khandelwal	GM	Uttar Pradesh	9958745666	<a href="mailto:m.khandelwal@gail.com">m.khandelwal@gail.com</a>	
17	Globus Enterprises	Asif Khan	HR Manager	Haryana	8950100576	<a href="mailto:asif.khan2396@gmail.com">asif.khan2396@gmail.com</a>	
18	EPL	Yaram VV Sudhakar	Manager- Technical Recruitment	Maharashtra	9673333546	<a href="mailto:sudhakar.yaram@epglobal.com">sudhakar.yaram@epglobal.com</a>	
19	Polyplex Cooperation Limited	Sunil Kumar Singh	Lead Manager	Uttarakhand	9568006870	<a href="mailto:ssingh@polyplex.com">ssingh@polyplex.com</a>	
20	Cosmo Auto Tech pvt ltd	Mr Prahalad	Senior Manager	Haryana	9911663852	<a href="mailto:accounts@cosmoautotech.com">accounts@cosmoautotech.com</a>	
21	Suman Auto Parts Limited	Anand Sharma	Manager- HR	Haryana	9540777930	<a href="mailto:anand@sumanauto.net">anand@sumanauto.net</a>	
22	Reliance Industries Ltd.	Dr Ajit Mathur	Retired Vice President (R and D)		9998954004	<a href="mailto:drajitmathur@gmail.com">drajitmathur@gmail.com</a>	
23	Lisa Plastic	Sunil Sahoo	Manager	Odisha	9776645779	<a href="mailto:lisa_plastics@yahoo.co.in">lisa_plastics@yahoo.co.in</a>	
24	The Sirpur Paper Mills	M. Naga Raju	Sr. Manager	Telangana	9912345001	<a href="mailto:naga.raju@spm.jkmail.com">naga.raju@spm.jkmail.com</a>	
25	Sekisui Dljm Moulding Pvt Ltd	R. Kumaresan	Assistant Manager	Tamil Nadu	7823930455	<a href="mailto:hrd5.ch@sekisuidljm.com">hrd5.ch@sekisuidljm.com</a>	

26	Innovsource Services Private Limited	Mr Ashwin Kute	Vp and Head Sales	Maharashtra	9820854493	<a href="mailto:ashwinkute@innov.in">ashwinkute@innov.in</a>	
27	Varroc Polymers	Mr Mahendra Pujari	Manager, HR	Maharashtra	9673001465	<a href="mailto:mahendra.pujari@varroc.com">mahendra.pujari@varroc.com</a>	
28	Arya Industry	Mr. Satyandra Sharma	Director	Rajasthan	98877-07318, 89497-22017	<a href="mailto:aryaindustryhanumangarh@gmail.com">aryaindustryhanumangarh@gmail.com</a>	
29	Tirupati Plastics	Mr Navneet Bansal	Director	Rajasthan	94133-82217, 94623-94224	<a href="mailto:tirupatiplastic.hmh@gmail.com">tirupatiplastic.hmh@gmail.com</a>	
30	Electronica Plastic Machineris Ltd	Mr Lalit Gundawar	Asst Managr, HR	Ambal	9823871789	lag@eletronicapml.com	

Annexure: Training & Employment Details

Training and Employment Projections:

Year	Total Candidates		Women		People with Disability	
	Estimated Training #	Estimated Employment Opportunities	Estimated Training #	Estimated Employment Opportunities	Estimated Training #	Estimated Employment Opportunities
2023-24	150	70%	30	70%		
2024-25	250	70%	50	70%		
2025-26	500	70%	100	70%		

Data to be provided year-wise for next 3 years

Training, Assessment, Certification, and Placement Data for previous versions of qualifications:

Qualification Version	Year	Total Candidates				Women				People with Disability			
		Trained	Assessed	Certified	Placed	Trained	Assessed	Certified	Placed	Trained	Assessed	Certified	Placed



6	<input checked="" type="checkbox"/> Proctored Monitoring/ Assessment/ Evaluation/ Examinations	<ul style="list-style-type: none"> <li>• Assessment engine for Essays</li> <li>• Up-loadable file examinations</li> <li>• Mock test sessions</li> </ul>	50:50
7	<input checked="" type="checkbox"/> On the Job Training (OJT)/ Project Work Internship/ Apprenticeship Training	<ul style="list-style-type: none"> <li>• Online tests</li> <li>• Offline assessments</li> </ul>	50:50

Annexure: Detailed Assessment Criteria

Detailed assessment criteria for each NOS/Module are as follows:

NOS/Module Name	Assessment Criteria for Performance Criteria/Learning Outcomes	Theory Marks	Practical Marks	Project Marks	Viva Marks
<b>RSC/N8018 - Prepare for stretch blow moulding operations</b>	<i>Ensure preparation for stretch blow moulding operations</i>	<b>40</b>	<b>60</b>	-	-
	PC1. interpret technical drawings to select tool types, components, and systems according to job specifications	4	6	-	-
	PC2. identify design features of product in terms of tool designing and manufacturing approach to achieve them	4	6	-	-
	PC3. determine quantity of preform required for product according to job specifications	4	6	-	-
	PC4. verify that product, preforms, and equipment meet requirements for the job	4	6	-	-
	PC5. ensure the cleanliness of the mould required for the stretch blow moulding process	4	6	-	-
	PC6. make sure pre-operational checks are performed before the start of the process to ensure proper functioning of clamping and stretch blow moulding unit	4	6	-	-
	PC7. ensure the damaged components are repaired or replaced before the operations, if any	4	6	-	-
	PC8. ascertain that all tools, equipment, power tool cables, extension leads are in a safe and usable condition	4	6	-	-
	PC9. perform fitting operations on machining components using hand tools and conventional machines	4	6	-	-
	PC10. ensure operation of moulding apparatus like stretch blow moulding unit, mould, etc. as per the requirement	4	6	-	-
	<b>Total Marks</b>	<b>40</b>	<b>60</b>	-	-
	<i>Carry out stretch blow moulding process</i>	<b>40</b>	<b>60</b>	-	-

<b>RSC/N8019 - Perform stretch blow moulding operations</b>	PC1. ensure readiness of the parison for the stretch blow moulding process	4	5	-	-
	PC2. make sure the preform is reheated and placed in the mould as per specifications	4	5	-	-
	PC3. ensure the preform is stretched using the compressed air as per requirements	4	5	-	-
	PC4. monitor the process to eject the finished product from the mould cavity after cooling	4	5	-	-
	PC5. monitor and maintain supply of preform to support operation of equipment	4	5	-	-
	PC6. verify items produced in terms of durability, quality of finish, and suitability for production requirements	3	6	-	-
	PC7. check the final product for appropriate barrier properties, drop impact, clarity, etc. as per quality requirements	3	6	-	-
	PC8. rectify minor defects like dimension variation, thickness variation, etc. by control process parameters, etc., if required	3	6	-	-
	PC9. recommend modifications for tools or materials to mitigate the risk of, or rectify, process control variances resulting from tool faults	4	6	-	-
	PC10. recognise and log process control variances and their issues	4	5	-	-
	PC11. maintain records and logbooks accurately including any variances	3	6	-	-
<b>Total Marks</b>		<b>40</b>	<b>60</b>	-	-
<b>RSC/N5610 - Coordinate and communicate effectively at the workplace</b>	<i>Communicate effectively with colleagues and seniors</i>	<b>28</b>	<b>44</b>	-	-
	PC1. interact with colleagues and senior in a polite and professional manner	2	4	-	-
	PC2. listen actively to the issues or requirements of colleagues and respond timely and appropriately	2	4	-	-
	PC3. exhibit trust, support and respect to all colleagues and seniors	2	4	-	-
	PC4. pass on essential information to the colleagues timely	2	4	-	-
	PC5. maintain clarity, honesty and transparency while communicating with the seniors and colleagues	2	4	-	-
	PC6. coordinate with seniors on work-related and behavioral feedback	3	4	-	-
	PC7. comply with organization's policies and procedures for team work	3	4	-	-
	PC8. seek clarification on the information provided by seniors, if needed	3	4	-	-
	PC9. respect the personal and professional space of colleagues and superiors	3	4	-	-
	PC10. report status of work as per the schedule to seniors and inform about any deviations or anomalies	3	4	-	-
	PC11. provide information in the desired format and frequency	3	4	-	-
<i>Coordinate with cross-functional teams</i>		<b>12</b>	<b>16</b>	-	-

	PC12. support colleagues of other departments for smooth work process, as required	3	4	-	-
	PC13. coordinate with maintenance/engineering team for preventive and corrective maintenance, break down and calibration errors	3	4	-	-
	PC14. provide inputs to the concerned stakeholders in periodic fence line review to detect non-compliance	3	4	-	-
	PC15. coordinate with health and safety team for incident or authorized personnel, accident and emergency, if any	3	4	-	-
	<b>Total Marks</b>	<b>40</b>	<b>60</b>	<b>-</b>	<b>-</b>
	<i>Prepare for housekeeping activities</i>	<b>22</b>	<b>31</b>	<b>-</b>	<b>-</b>
<b>RSC/N5001 - Carry out housekeeping</b>	PC1. inspect the area/s to identify the different types of surfaces that require cleaning	2	4	-	-
	PC2. determine the material requirements for cleaning the areas inspected considering risk, time, efficiency and type of stain	4	4	-	-
	PC3. ensure that cleaning equipment is in proper working condition	2	4	-	-
	PC4. ensure that the suitable alternatives are selected for cleaning the areas, in case the appropriate equipment and materials are not available	3	4	-	-
	PC5. ensure that the correct sequence/steps are followed for cleaning the area to avoid re-soiling clean areas and surfaces	4	5	-	-
	PC6. ensure the usage of appropriate signage to inform about the cleaning activity being carried out	2	3	-	-
	PC7. ensure adequate ventilation for the work being carried out	2	3	-	-
	PC8. wear personal protective equipment suitable for the cleaning method and cleaning materials being used	3	4	-	-
	<i>Carry out housekeeping operations</i>	<b>9</b>	<b>13</b>	<b>-</b>	<b>-</b>
	PC9. ensure that the cleaning activity is carried out as per SOP	3	4	-	-
	PC10. manage accidental damage, as per the workplace procedure, caused while carrying out the work	2	3	-	-
	PC11. report to the appropriate person regarding difficulties in carrying out the work	2	3	-	-
	PC12. identify and report to the appropriate person if any additional cleaning required that is outside one's responsibility or skill	2	3	-	-
<i>Perform post housekeeping activities</i>	<b>9</b>	<b>16</b>	<b>-</b>	<b>-</b>	
PC13. ensure that housekeeping equipment and supplies are stored and maintained as per company standards	2	3	-	-	

	PC14. ensure that, on completion of the work, the area is left clean and dry as per the requirements	2	4	-	-
	PC15. ensure that the equipment, materials and personal protective equipment that were used, are returned to their respective places in appropriate manner	2	4	-	-
	PC16. ensure appropriate disposal of the waste garnered from the cleaning activity	1	3	-	-
	PC17. ensure that all necessary supplies or consumables are replenished as per the requirement	2	2	-	-
	<b>Total Marks</b>	<b>40</b>	<b>60</b>	-	-
<b>RSC/N5007 - Carry out health and safety</b>	<i>Maintain safe and efficient workplace</i>	<b>9</b>	<b>32</b>	-	-
	PC1. perform basic safety checks before operation of all machinery and equipment	1	4	-	-
	PC2. report hazards identified during safety checks to the appropriate supervisor	1	4	-	-
	PC3. use appropriate protective clothing/equipment/safety gear to carry out the related duties in accordance with the workplace policy	1	3	-	-
	PC4. assess the risk prior to performing the jobs which involve manual handling	1	4	-	-
	PC5. carry out work according to the recommended safe practices while ensuring minimum environmental damage	1	4	-	-
	PC6. return the equipment and materials to the designated storage after every use	1	4	-	-
	PC7. dispose off the waste safely as per the procedure in the designated area	1	3	-	-
	PC8. plan and implement actions to reduce the risk to bystanders	1	3	-	-
	PC9. monitor all the procedures and work instructions for controlling the risk	1	3	-	-
	<i>Follow appropriate emergency procedures</i>	<b>12</b>	<b>22</b>	-	-
	PC10. report accidents, incidents or problems, if any, without delay to an appropriate person	2	4	-	-
	PC11. perform immediate necessary action as required to reduce the damage	2	4	-	-
	PC12. follow procedures for dealing with accidents, fires and emergencies as per the company standards and workplace requirements	2	4	-	-
	PC13. operate emergency equipment in accordance with manufacturers' specifications and workplace requirements	2	3	-	-
PC14. provide appropriate treatment to the patient's injuries in accordance with approved first aid techniques	1	2	-	-	

	PC15. clean, inspect/ test, refurbish, replace and store the first aid equipment as appropriate	2	3	-	-
	PC16. report details of first aid administered in accordance with the workplace procedures	1	2	-	-
	<i>Comply with standard safety procedures</i>	5	12	-	-
	PC17. comply with standard safety procedures while handling heavy/hazardous material, chemicals, machine, equipment, or sharp tool to avoid accidents	1	3	-	-
	PC18. perform preventive actions to protect from leakages, water logging, pests, fire, pollution, etc.	2	3	-	-
	PC19. ensure zero accidents, damages, or breach of company safety procedure	1	3	-	-
	PC20. maintain the workplace organized, clean and hazard free	1	3	-	-
	<i>Participate in safety awareness campaigns</i>	4	4	-	-
	PC21. participate in the fire drills and other safety related workshops organized at the workplace	2	2	-	-
	PC22. create awareness about first aid, evacuation and emergency procedures	2	2	-	-
	<b>Total Marks</b>	<b>30</b>	<b>70</b>	<b>-</b>	<b>-</b>
<b>RSC/N5603 - Follow ethical and sustainable practices at the workplace</b>	<i>Adopt resource conservation practices (Greening)</i>	<b>11</b>	<b>26</b>	<b>-</b>	<b>-</b>
	PC1. follow organizational policies for usage of alternate energy source, such as solar energy, for the site	3	3	-	-
	PC2. ensure proper usage of fuels (such as diesel) to minimise pollution and conserve energy	2	6	-	-
	PC3. use resources in a responsible manner	2	6	-	-
	PC4. ensure water conservation practices at the workplace	2	5	-	-
	PC5. carry out processes to prevent soil erosion during plantation and other related activities	2	6	-	-
	<i>Follow effective waste management practices</i>	<b>13</b>	<b>17</b>	<b>-</b>	<b>-</b>
	PC6. identify and segregate different types of waste such as recyclable, non-recyclable, and hazardous waste generated	3	4	-	-
	PC7. store waste into different types of bins/containers or appropriate areas based on their categorisation	3	4	-	-
	PC8. undertake disposal of non-recyclable waste appropriately as per the prescribed procedure	3	4	-	-
	PC9. organise storage of recyclable and reusable material at identified location	2	3	-	-
	PC10. ensure proper disposal of hazardous waste as per specified processes	2	2	-	-
<i>Display behavioural Skills at workplace</i>	<b>5</b>	<b>5</b>	<b>-</b>	<b>-</b>	
PC11. ensure timely execution of the assigned tasks.	4	2	-	-	

	PC12. exhibit proper etiquette and emotional behaviour at workplace and among team members	1	3	-	-
	<i>Adopt workplace practices and policies respecting gender and ability differences</i>	11	12	-	-
	PC13. follow appropriate non verbal communications taking gender and disability of the person into consideration	4	4	-	-
	PC14. communicate in a polite and appropriate manner irrespective of the ability and gender of the person	3	4	-	-
	PC15. ensure to provide work assistance/support to PwD team members and coordinate with them if needed or requested	4	4	-	-
	<b>Total Marks</b>	<b>40</b>	<b>60</b>	-	-
<b>DGT/VSQ/N0101 - Employability Skills (30 Hours)</b>	<i>Introduction to Employability Skills</i>	1	1	-	-
	PC1. understand the significance of employability skills in meeting the job requirements	-	-	-	-
	<i>Constitutional values – Citizenship</i>	1	1	-	-
	PC2. identify constitutional values, civic rights, duties, personal values and ethics and environmentally sustainable practices	-	-	-	-
	<i>Becoming a Professional in the 21st Century</i>	1	3	-	-
	PC3. explain 21st Century Skills such as Self- Awareness, Behavior Skills, Positive attitude, self-motivation, problem-solving, creative thinking, time management, social and cultural awareness, emotional awareness, continuous learning mindset etc.	-	-	-	-
	<i>Basic English Skills</i>	2	3	-	-
	PC4. speak with others using some basic English phrases or sentences	-	-	-	-
	<i>Communication Skills</i>	1	1	-	-
	PC5. follow good manners while communicating with others	-	-	-	-
	PC6. work with others in a team	-	-	-	-
	<i>Diversity &amp; Inclusion</i>	1	1	-	-
	PC7. communicate and behave appropriately with all genders and PwD	-	-	-	-
	PC8. report any issues related to sexual harassment	-	-	-	-
	<i>Financial and Legal Literacy</i>	3	4	-	-
	PC9. use various financial products and services safely and securely	-	-	-	-
	PC10. calculate income, expenses, savings etc.	-	-	-	-
PC11. approach the concerned authorities for any exploitation as per legal rights and laws	-	-	-	-	
<i>Essential Digital Skills</i>	4	6	-	-	

PC12. operate digital devices and use its features and applications securely and safely	-	-	-	-
PC13. use internet and social media platforms securely and safely	-	-	-	-
<i>Entrepreneurship</i>	<b>3</b>	<b>5</b>	-	-
PC14. identify and assess opportunities for potential business	-	-	-	-
PC15. identify sources for arranging money and associated financial and legal challenges	-	-	-	-
<i>Customer Service</i>	<b>2</b>	<b>2</b>	-	-
PC16. identify different types of customers	-	-	-	-
PC17. identify customer needs and address them appropriately	-	-	-	-
PC18. follow appropriate hygiene and grooming standards	-	-	-	-
<i>Getting ready for apprenticeship &amp; Jobs</i>	<b>1</b>	<b>3</b>	-	-
PC19. create a basic biodata	-	-	-	-
PC20. search for suitable jobs and apply	-	-	-	-
PC21. identify and register apprenticeship opportunities as per requirement	-	-	-	-
<b>Total Marks</b>	<b>20</b>	<b>30</b>	-	-
<b>Grand Total</b>	<b>250</b>	<b>400</b>		

#### **Annexure: Assessment Strategy**

This section includes the processes involved in identifying, gathering, and interpreting information to evaluate the Candidate on the required competencies of the program.

*Mention the detailed assessment strategy in the provided template.*

1. Assessment System Overview:

- Batches assigned to the assessment agencies for conducting the assessment on SDMS/SIP or email
- Assessment agencies send the assessment confirmation to VTP/TC looping SSC
- Assessment agency deploys the ToA certified Assessor for executing the assessment
- SSC monitors the assessment process & records

2. Testing Environment:

- Confirm that the centre is available at the same address as mentioned on SDMS or SIP
- Check the duration of the training.
- Check the Assessment Start and End time to be as 10 a.m. and 5 p.m.
- If the batch size is more than 30, then there should be 2 Assessors.
- Check that the allotted time to the candidates to complete Theory & Practical Assessment is correct.
- Check the mode of assessment—Online (TAB/Computer) or Offline (OMR/PP).
- Confirm the number of TABs on the ground are correct to execute the Assessment smoothly.
- Check the availability of the Lab Equipment for the particular Job Role.

3. Assessment Quality Assurance levels / Framework:
  - Question papers created by the Subject Matter Experts (SME)
  - Question papers created by the SME verified by the other subject Matter Experts
  - Questions are mapped with NOS and PC
  - Question papers are prepared considering that level 1 to 3 are for the unskilled & semi-skilled individuals, and level 4 and above are for the skilled, supervisor & higher management
  - Assessor must be ToA certified & trainer must be ToT Certified
  - Assessment agency must follow the assessment guidelines to conduct the assessment
4. Types of evidence or evidence-gathering protocol:
  - Time-stamped & geotagged reporting of the assessor from assessment location
  - Centre photographs with signboards and scheme specific branding
  - Biometric or manual attendance sheet (stamped by TP) of the trainees during the training period
  - Time-stamped & geotagged assessment (Theory + Viva + Practical) photographs & videos
5. Method of verification or validation:
  - Surprise visit to the assessment location
  - Random audit of the batch
  - Random audit of any candidate
6. Method for assessment documentation, archiving, and access
  - Hard copies of the documents are stored
  - Soft copies of the documents & photographs of the assessment are uploaded / accessed from Cloud Storage
  - Soft copies of the documents & photographs of the assessment are stored in the Hard Drives

**On the Job:**

1. Each module (which covers the job profile of Machine Operator – Injection Moulding Plastic will be assessed separately.
2. The candidate must score 50% in each module to successfully complete the OJT.
3. Tools of Assessment that will be used for assessing whether the candidate is having desired skills and etiquette of dealing with customers, understanding needs & requirements, assessing the customer and perform Soft Skills effectively:
  - Videos of Trainees during OJT
  - Answer Sheets of Question Banks
  - Assessing the Logbook entries of Trainees at Employer location
  - Employer Performance Feedback.
4. Assessment of each Module will ensure that the candidate is able to:
  - Prepare for injection moulding operations
  - Perform injection moulding operations

**Annexure: Acronym and Glossary**

Acronym

Acronym	Description
<b>AA</b>	Assessment Agency
<b>AB</b>	Awarding Body
<b>ISCO</b>	International Standard Classification of Occupations
<b>NCO</b>	National Classification of Occupations
<b>NCrF</b>	National Credit Framework
<b>NOS</b>	National Occupational Standard(s)
<b>NQR</b>	National Qualification Register
<b>NSQF</b>	National Skills Qualifications Framework
<b>OJT</b>	On the Job Training

Glossary

Term	Description
<b>National Occupational Standards (NOS)</b>	NOS define the measurable performance outcomes required from an individual engaged in a particular task. They list down what an individual performing that task should know and also do.
<b>Qualification</b>	A formal outcome of an assessment and validation process which is obtained when a competent body determines that an individual has achieved learning outcomes to given standards
<b>Qualification File</b>	A Qualification File is a template designed to capture necessary information of a Qualification from the perspective of NSQF compliance. The Qualification File will be normally submitted by the awarding body for the qualification.
<b>Sector</b>	A grouping of professional activities on the basis of their main economic function, product, service or technology.
<b>Long Term Training</b>	Long-term skilling means any vocational training program undertaken for a year and above. <a href="https://ncvet.gov.in/sites/default/files/NCVET.pdf">https://ncvet.gov.in/sites/default/files/NCVET.pdf</a>