

**NSQF QUALIFICATION FILE****Approved in 14<sup>th</sup> NSQC Meeting – NCVET – 30<sup>th</sup> December 2021****CONTACT DETAILS OF THE BODY SUBMITTING THE QUALIFICATION FILE****Name and address of submitting body**

Rubber, Chemical & Petrochemical Skill Development Council (RCPSDC) 304,  
3rd Floor, Rectangle One, Saket District Center, New Delhi – 110017  
(India) Tel: +91 11 41009347- 48

**Name and contact details of individual dealing with the submission****Name:** Ms Shewani Nagpal**Position in the organisation:** COO**Address if different from above:** same as above**Tel number(s):** +91 11 41009347- 48**E-mail address:** [shewani.nagpal@rcpsdc.in](mailto:shewani.nagpal@rcpsdc.in)**List of documents submitted in support of the Qualifications File**

1. Annexure 1 - Occupational Map of the Sector
2. Annexure 2 - Qualification Pack (Designer - Die and Mould for Plastic)
3. Annexure 3 - Model Curriculum
4. Annexure 4 - About the Sector Study
5. Annexure 5 - Labour Market Clarity Report
6. Annexure 6 - Industry Validation
7. Annexure 7 - Industry Validation Summary
8. Annexure 8 – RCPSDC Affiliation and Accreditation Strategy

**Model Curriculum including:**

- Indicative list of tools/equipment to conduct the training
- Trainers qualification
- Lesson Plan
- Distribution of training duration into theory/practical/OJT component

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### SUMMARY

<b>Qualification Title:</b>	Designer - Die and Mould for Plastic
<b>Qualification Code, if any</b>	RSC/Q8001
<b>NCO code and occupation</b>	NCO-2015/3115.12
<b>Nature and purpose of the qualification (Please specify whether qualification is short term or long term)</b>	<p>The main purpose of the qualification and the target learners is to get unemployed people into work and to upgrade the skills of people already in work.</p> <p>It is a short-term course.</p>
<b>Body/bodies which will award the qualification</b>	Rubber, Chemical & Petro Chemical Skills Development Council
<b>Body which will accredit providers to offer courses leading to the qualification</b>	Rubber, Chemical & Petro Chemical Skills Development Council
<b>Whether accreditation/affiliation norms are already in place or not, if applicable (if yes, attach a copy)</b>	Yes Refer 1. RCPSDC Affiliation Application Form for Training Partners 2. RCPSDC Protocols for Affiliating Assessment Agencies
<b>Occupation(s) to which the qualification gives access</b>	Production/Manufacturing Plastic Processing
<b>Job description of the occupation</b>	The individual at work is responsible for supervising the process of designing details of mould/die parts, their working mechanism and other system requirements for manufacturing of the plastic products.
<b>Licensing requirements</b>	NA
<b>Statutory and Regulatory requirement of the relevant sector (documentary evidence to be provided)</b>	NA
<b>Level of the qualification in the NSQF</b>	Level 4
<b>Anticipated volume of training/learning required to complete the qualification</b>	480 Hours
<b>Indicative list of training tools required to deliver this qualification</b>	Required moulding item, new tool, plastic material, raw material, injection moulds etc., Sample drawing for the required mould/die using

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	CAD/CAE software, Sample list of raw material, drawing of mould/die, performance data, Required Machine for mould/die drawing, Sample of escalation matrix, Organisation structure, Cleaning rags, cleaning brush, broom, mop, cleaning chemicals, floor cleaning machine, personal protective equipment (PPE) - safety gloves, safety goggles, safety shoes, mask, earmuff, first aid box, fire extinguisher, eye-wash station, Defective raw material, defective components, Whiteboard, Flip Chart, Markers, Duster, Projector, Laptop with charger, Projector screen, Power Point Presentation, 2.1 Laptop External Speakers	
<b>Entry requirements and/or recommendations and minimum age</b>	Entry Requirement: 12th Class (Science) OR ITI (two years after Class 10th) in relevant trade OR NSQF Level 3 - Jr. Designer- Die and Mould for Plastic with 2 years of relevant experience Minimum Age: 18 Years	
<b>Progression from the qualification (Please show Professional and academic progression)</b>	Designer - Die and Mould for Plastic → Assistant Manager- Die and Mould Design → Design Manager	
<b>Arrangements for the Recognition of Prior learning (RPL)</b>	Assessments under RPL are carried out as per the normal assessment process followed by RCPSDC.	
<b>International comparability where known (research evidence to be provided)</b>	To be established	
<b>Date of planned review of the qualification</b>	30/12/2024	
<b>Formal structure of the qualification</b>		
<b>Title of component and identification code/NOSs/Learning outcomes</b>	<b>Estimated size (learning hours)</b>	<b>Level</b>
Bridge Module	04	
RSC/N8001: Supervise die/mould	400	4

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designing		
RSC/N5610: Coordinate and communicate effectively at the workplace	24	4
RSC/N5001: Carry out housekeeping	19	4
RSC/N5007: Carry out health and safety	17	4
RSC/N5603: Follow ethical and sustainable practices at the workplace	16	4
<b>Sub Total (A)</b>	<b>480 Hours</b>	

**Please attach any document giving further detail about the structure of the qualification – e.g. a Curriculum Document or a Qualification Pack.**

### Refer

Annexure 2: Qualification Pack for Designer - Die and Mould for Plastic

Annexure 3: Model Curriculum

**Give the titles and other relevant details of the document(s) here. Include page references showing where to find the relevant information.**

### SECTION 1 ASSESSMENT

#### **Body/Bodies which will carry out assessment:**

**If there will be more than one assessment body for this qualification, give details.**

- Mercer-Mettl
- Trendsetters
- IRIS Corporate Solution Pvt. Ltd
- E&E Skills
- MSAG
- Eduvantage Pvt. Ltd.
- SP Institute of Workforce Development Pvt Ltd (SPIWD)

#### **How will RPL assessment be managed and who will carry it out?**

RPL will be based on the same Qualification Pack and Assessment Criteria mentioned in the QP.

**Give details of how RPL assessment for the qualification will be carried out and quality assure**

The process of RPL assessment is same as that of followed for fresh trainings.

**Describe the overall assessment strategy and specific arrangements which have been put in place to ensure that assessment is always valid, consistent and fair and show that these are in line with the requirements of the NSQF.**

For different Jobs Roles the assessment of candidates will be at NOS level.

Assessment criterion has been defined for each NOS and it includes both theoretical and practical skills on which the candidate will be assessed. The question suite which will be used to check the skills of the trainee would include

- **Theoretical test suite**– Will include multiple choice questions, audio-video question etc. which will test the trainee on his knowledge of the subject
- **Practical knowledge suite**– 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

To ensure the quality of the assessment, each trainee gets a unique set of questions. A trainee has to score set minimum marks separately for across theoretical and practical skills with an overall percentage of 70% or higher. Assessments are preferably conducted on tablets or papers in regional languages according to the requirement. Questions are uploaded in the tablets only on the day of assessment. To ensure fair means and ways being followed during the assessment, presence of the concerned training partner is mandatory.

To ensure quality of assessments further, it is ensured that only Subject Matter Experts (SMEs) are being empanelled. For sourcing the assessors, Assessment Agency will reach out to the Industry experts, Academicians, Members of industry bodies and others to volunteer for the role of an assessor.

The assessment partners are encouraged to hire assessors with integrity, reliability and fairness and enter into an agreement confirming confidentiality, no conflict of interest or any other position, which may compromise the quality of assessment. The assessors need to have adequate hands-on experience in the domain, preferably at a level above the position for which they conduct the assessment. Assessors are trained on the assessment process, and the question sets. At the time of the assessment, the assessors check the identity of the candidates with a photo identification card and attendance during the training.

SSC and Assessment agency review the performance and competence of assessors, on a periodic basis, in order to identify and streamlines any gaps in the process.

Please attach any documents giving further information about assessment and/or RPL.

Give the titles and other relevant details of the document(s) here. Include page references showing where to find the relevant information.

*Please follow the link to find the assessment protocol:*

[http://rsdcindia.in/ssc/training\\_assessments/training-partners/accreditation/#page-content](http://rsdcindia.in/ssc/training_assessments/training-partners/accreditation/#page-content)

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### ASSESSMENT EVIDENCE

Complete a grid for each component as listed in “Formal structure of the qualification” in the Summary.

NOTE: this grid can be replaced by any part of the qualification documentation which shows the same information – i.e. learning Outcomes to be assessed, assessment criteria and the means of assessment

Compulsory NOS		Marks Allocation			
Total Marks: 500		Total Marks	Theory	Practical	Viva
Assessment outcomes	Assessment Criteria for outcomes				
RSC/N8001: Supervise die/ mould designing	PC1. discuss the work order and other relevant details with the junior designer		1	2	0
	PC2. ensure the junior designer interprets the sketches and work orders correctly		1	2	0
	PC3. verify the specifications established by the junior designer regarding moulding material like temperature requirement, weight, mould shrinkage, etc., machine specifications like pressure, injection time, etc., and other tool specifications like number of impressions, type of mould or die, estimated cycle time, etc.		1	2	0
	PC4. validate the appropriate moulding procedure and processes to be adopted for completing the workorder as suggested by the junior designer		1	2	0
	PC5. ensure availability of the raw materials to execute the designing		1	2	0
	PC6. analyze the requirement of a new tool like type of moulds/dies mechanism, online gauges, etc. and approve the process of moulding items, requirement for new tool, etc. based on the same		1	2	0

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PC7.	validate the mechanism of the working for the mould/die based on the sequence of operations requires for the moulding process	<b>100</b>	1	2	0
PC8.	determine if prototype of the mould is required to check for proper working and inform the junior design about the same		1	2	0
PC9.	check the rough dimensions of the mould/die prepared by the junior designer		1	2	0
PC10.	prepare the drawing for the required mould/die using CAD/CAE software		1	2	0
PC11.	make sure the sequence of operations required for moulding process id followed at all times		1	2	0
PC12.	ensure the drawings of the mould/die are shared with the in-house tool room or third-party agency, as applicable for review		1	2	0
PC13.	update the dimensions of the mould/die as per the feedback obtained		1	2	0
PC14.	design complete injection moulds, including all solid models and 2D drawings		1	2	0
PC15.	review the drawing and operation of the mould/die using simulation software, if required		1	2	0
PC16.	analyze the end result through CAE software during the design stage		1	2	0
PC17.	develop and integrate new mould design approaches and latest mould design technologies		1	2	0
PC18.	validate the operation sequence program in case robotics/automation application is required for mould functioning		1	2	0
PC19.	establish the working system for the mould/die like guiding system, feed system, ejection system, etc. for injection mould, type of die, size of mandrel required in extrusion die and shape of bottle and its size in blow moulding		2	2	0
PC20.	ratify the typical allowances, fits and tolerances required on matching parts for the process trimming, and warpage, etc. as suggested by the junior designer		2	2	0

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	PC21. share the finalized mould profile and dimensions with the in-house tool room or third-part agency for review		2	2	0
	PC22. ensure adherence to GD&T requirements for any on-line gauges designed as part of designing		2	2	0
	PC23. ensure the list of raw material and requires size as per finished mould/die design is prepared as per SOP		2	2	0
	PC24. make sure the drawings of the mould/die are released to the production department as per the organizational standards		2	2	0
	PC25. ensure appropriate monitoring of the development as per machining process in tool room for any revisions, clarity required, etc.		2	2	0
	PC26. analyze and find the root cause of any problem encountered during the development or assembly of parts of the mould		2	2	0
	PC27. decide the appropriate solution in case of requirement of any change in the design considering cost, time, impact on mechanism etc.		2	2	0
	PC28. make sure the modified drawing are released based on problem analysis and suggested improvements		2	3	0
	PC29. ensure the maintenance of performance data of the mould for next project		2	3	0
	<b>NOS Total</b>	<b>100</b>	<b>40</b>	<b>60</b>	<b>0</b>
RSC/5610: Coordinate and communicate effectively at the workplace	PC1. interact with colleagues and senior in a polite and professional manner		2	4	0
	PC2. listen actively to the issues or requirements of colleagues and respond timely		2	4	0
	PC3. exhibit trust, support and respect to all colleagues and seniors		2	4	0
	PC4. pass on essential information to the colleagues timely		2	4	0



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	PC5. maintain clarity, honesty and transparency while communicating with the seniors and colleagues	<b>100</b>	2	4	0
	PC6. coordinate with seniors on work-related and behavioral feedback		3	4	0
	PC7. comply with organization's policies and procedures for team work		3	4	0
	PC8. seek clarification on the information provided by seniors, if needed		3	4	0
	PC9. respect the personal and professional space of colleagues and superiors		3	4	0
	PC10. report status of work as per the schedule to seniors and inform about any deviations or anomalies		3	4	0
	PC11. provide information in the desired format and frequency		3	4	0
	PC12. support colleagues of other departments for smooth work process, as required		3	4	0
	PC13. coordinate with maintenance /engineering team for preventive and corrective maintenance, break down and calibration errors		3	4	0
	PC14. provide inputs to the concerned stakeholders in periodic fence line review to detect non-compliance		3	4	0
	PC15. coordinate with environmental health and safety (EHS) team for incident, accident and emergency, if any		3	4	0
	<b>NOS Total</b>	<b>100</b>	<b>40</b>	<b>60</b>	<b>0</b>
RSC/N5001: Carry out housekeeping	PC1. inspect the area/s to identify the different types of surfaces that require cleaning		2	4	0
	PC2. determine the material requirements for cleaning the areas inspected considering risk, time, efficiency and type of stain		4	4	0

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PC3. ensure that cleaning equipment is in proper working condition	<b>100</b>	2	4	0
PC4. ensure that the suitable alternatives are selected for cleaning the areas, in case the appropriate equipment and materials are not available		3	4	0
PC5. ensure that the correct sequence/steps are followed for cleaning the area to avoid re-soiling clean areas and surfaces		4	5	0
PC6. ensure the usage of appropriate signage to inform about the cleaning activity being carried out		2	3	0
PC7. ensure adequate ventilation for the work being carried out		2	3	0
PC8. wear personal protective equipment suitable for the cleaning method and cleaning materials being used		3	4	0
PC9. ensure that the cleaning activity is carried out as per SOP		3	4	0
PC10. manage accidental damage, as per the workplace procedure, caused while carrying out the work		2	3	0
PC11. report to the appropriate person regarding difficulties in carrying out the work		2	3	0
PC12. identify and report to the appropriate person if any additional cleaning required that is outside one's responsibility or skill		2	3	0
PC13. ensure that housekeeping equipment and supplies are stored and maintained as per company standards		2	3	0
PC14. ensure that, on completion of the work, the area is left clean and dry as per the requirements		2	4	0

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	PC15. ensure that the equipment, materials and personal protective equipment that were used, are returned to their respective places in appropriate manner		2	4	0
	PC16. ensure appropriate disposal of the waste garnered from the cleaning activity		1	3	0
	PC17. ensure that all necessary supplies or consumables are replenished as per the requirement		2	2	0
	<b>NOS Total</b>	<b>100</b>	<b>40</b>	<b>60</b>	<b>0</b>
RSC/N5007: Carry out health and safety	PC1. perform basic safety checks before operation of all machinery and equipment	<b>100</b>	1	4	0
	PC2. report hazards identified during safety checks to the appropriate supervisor		1	4	0
	PC3. use appropriate protective clothing/equipment/safety gear to carry out the related duties in accordance with the workplace policy		1	3	0
	PC4. assess the risk prior to performing the jobs which involve manual handling		1	4	0
	PC5. carry out work according to the recommended safe practices while ensuring minimum environmental damage		1	4	0
	PC6. return the equipment and materials to the designated storage after every use		1	4	0
	PC7. dispose off the waste safely as per the procedure in the designated area		1	3	0
	PC8. plan and implement actions to reduce the risk to bystanders		1	3	0

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PC9. monitor all the procedures and work instructions for controlling the risk	1	3	0
PC10. report accidents, incidents or problems, if any, without delay to an appropriate person	2	4	0
PC11. perform immediate necessary action as required to reduce the damage	2	4	0
PC12. follow procedures for dealing with accidents, fires and emergencies as per the company standards and workplace requirements	2	4	0
PC13. operate emergency equipment in accordance with manufacturers' specifications and workplace requirements	2	3	0
PC14. provide appropriate treatment to the patient's injuries in accordance with approved first aid techniques	1	2	0
PC15. clean, inspect/ test, refurbish, replace and store the first aid equipment as appropriate	2	3	0
PC16. report details of first aid administered in accordance with the workplace procedures	1	2	0
PC17. comply with standard safety procedures while handling heavy/hazardous material, chemicals, machine, equipment, or sharp tool to avoid accidents	1	3	0
PC18. perform preventive actions to protect from leakages, water logging, pests, fire, pollution, etc.	2	3	0
PC19. ensure zero accidents, damages, or breach of company safety procedure	1	3	0
PC20. maintain the workplace organized, clean and hazard free	1	3	0
PC21. participate in the fire drills and other safety related workshops organized at the workplace	2	2	0
PC22. create awareness about first aid, evacuation and emergency procedures	2	2	0

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	NOS Total	100	30	70	0
RSC/N5603: Follow ethical and sustainable practices at the workplace	PC1. follow organizational policies for usage of alternate energy source, such as solar energy, for the site	100	3	3	0
	PC2. ensure proper usage of fuels (such as diesel) to minimise pollution and conserve energy		2	6	0
	PC3. use resources in a responsible manner		2	6	0
	PC4. ensure zero wastage of water and follow water conservation practices at the workplace		2	5	0
	PC5. carry out processes to prevent soil erosion during plantation and other related activities		2	6	0
	PC6. identify and segregate different types of waste such as recyclable, non-recyclable, and hazardous waste generated		3	4	0
	PC7. store waste into different types of bins/containers or appropriate areas based on their categorisation		3	4	0
	PC8. undertake disposal of non-recyclable waste appropriately as per the prescribed procedure		3	4	0
	PC9. organise storage of recyclable and reusable material at identified location		2	3	0
	PC10. ensure proper disposal of hazardous waste as per specified processes		2	2	0
	PC11. ensure timely execution of the assigned tasks.		4	-	0
	PC12. exhibit proper etiquette and emotional behaviour at workplace and among team members		1	3	0

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	PC13. follow appropriate non verbal communications taking gender and disability of the person into consideration		4	5	0
	PC14. communicate in a polite and appropriate manner irrespective of the ability and gender of the person		3	5	0
	PC15. ensure to provide work assistance/support to PwD team members and coordinate with them if needed or requested		4	4	0
	<b>NOS Total</b>	<b>100</b>	<b>40</b>	<b>60</b>	<b>0</b>

### Means of assessment 1

The assessment comprises of:

- Written Assessment
- Viva
- Practical assessment

### Pass/ Fail

The Pass mark of written assessment is 40% and for viva and practical assessment is 60%. Total passing mark is 70%.

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<b>Designer - Die and Mould for Plastic</b>			
<b>NSQF Domain</b>	<b>Outcomes of the Qualification/Component</b>	<b>How the outcomes relate to the NSQF level descriptors</b>	<b>NSQF Level</b>
<b>Process</b>	<p><b>Work in familiar, predictable, routine, situation of clear choice.</b></p> <ul style="list-style-type: none"><li>• Supervise die/mould designing</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 Designer - Die and Mould for Plastic should be able to supervise mould/die designing as per the organisational standards. The person should be familiar with the work, and perform tasks that are predictable and routine in nature.</li><li>• Hence Level 4</li></ul>	4
<b>Professional knowledge</b>	<p><b>Factual knowledge of field of knowledge or study.</b></p> <ul style="list-style-type: none"><li>• Explain procedure to create 2-d and 3-d designs for moulding</li><li>• Describe types of engineering drawings such as isometric, orthographic, schematic, etc.</li><li>• Discuss types of moulding procedure and manufacturing processes, moulding process flow</li></ul>	<ul style="list-style-type: none"><li>• A Designer - Die and Mould for Plastic should be well acquainted with the factual knowledge of the designing of mould and die for plastic like moulding procedure and manufacturing processes, moulding process flow, sequence of operations etc.</li><li>• Hence level 4</li></ul>	4

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	<ul style="list-style-type: none"><li>• List raw material required for mould designing and various types of plastics and additives</li><li>• Explain sequence of operations for mould/die design process and technical and functional requirements of moulds or dies</li><li>• Describe manual and software based drafting techniques and standard procedure of documentation</li><li>• Explain problem identification techniques and process of Failure Mode Effects Analysis (PFMEA)</li><li>• List various plastic materials and its properties including shrink behaviors</li><li>• Discuss basics of hot runner systems</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></ul>		
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	<ul style="list-style-type: none"><li>● Outline the importance of optimal utilization of resources and providing feedback for improvement</li><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></ul>		
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	<ul style="list-style-type: none"> <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> <li>●</li> </ul>		
<p><b>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>● Apply problem-solving approach prior to resolve difficulties</li> <li>● Suggest solutions to improve work processes</li> <li>● Make timely decisions for efficient utilization of resources</li> <li>● Write in English/regional language and complete written work with attention to detail</li> <li>● Maintain data on waste disposal at workplace</li> </ul>	<ul style="list-style-type: none"> <li>● A Designer - Die and Mould for Plastic has to perform moulding operations by applying professional skill at workplace as per the organizational standards. This person recalls and demonstrate practical skills and perform routine and repetitive task in narrow range of application by using appropriate tool, quality concepts, etc.</li> <li>● Hence Level 4</li> </ul>	<p>4</p>

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<p><b>Core skill</b></p>	<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 job related documents</li> <li>● Note down the information communicated by the supervisor</li> <li>● Communicate effectively with junior designer, supervisor and team members</li> <li>● Read and understand documentation clearly</li> <li>● Communicate with all stakeholders in a polite and courteous manner using effective communication skills</li> <li>● Write in English or any regional language</li> <li>● Seek clarification as and when required</li> <li>● Identify cause and effect of greening of jobs</li> <li>● Ensure punctuality, proper utilization of time and management workload efficiently</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>	<ul style="list-style-type: none"> <li>● A Designer - Die and Mould for Plastic should apply core skills such as basic understanding of social and natural environment with and knowledge greening, health, hygiene and safety standards followed at workplace, etc. The person should also have written and oral communication skills with minimum required clarity.</li> <li>● Hence Level 4</li> </ul>	<p>4</p>
<p><b>Responsibility</b></p>	<p><b>Responsibility for own work and learning.</b></p> <ul style="list-style-type: none"> <li>● Ensure preparation for designing process</li> <li>● Supervise layout detailing</li> <li>● Monitor the release of the drawing</li> <li>● Communicate effectively with colleagues and seniors</li> </ul>	<ul style="list-style-type: none"> <li>● A Designer - Die and Mould for Plastic is responsible for ensuring preparation for designing process, supervise layout detailing, monitor the release of the drawing as per the organisational standards. This person is responsible for his own work and learning.</li> <li>● Hence Level 4</li> </ul>	<p>4</p>

**NSQF QUALIFICATION FILE**

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	<ul style="list-style-type: none"><li>● Coordinate with cross-functional teams</li><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</li><li>● Comply with standard safety procedures</li><li>● Participate in safety awareness campaigns</li><li>● Adopt resource conservation practices (Greening)</li><li>● 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><li>●</li></ul>		
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**NSQF QUALIFICATION FILE**Approved in 14<sup>th</sup> NSQC Meeting – NCVET – 30<sup>th</sup> December 2021**SECTION 3****EVIDENCE OF NEED**

**What evidence is there that the qualification is needed? What is the estimated uptake of this qualification and what is the basis of this estimate?**

<b>Basis</b>	<b>In case of SSC</b>	<b>In case of other Awarding Bodies (Institutes under Central Ministries and states departments)</b>
<b>Need of the qualification</b>	<ul style="list-style-type: none"> <li>As per the Labour Market Clarity Report (Annexure 5) there is a huge demand for skilled professionals Production/Manufacturing Plastic Processing trade,</li> </ul>	N/A. The certifications for the job role of a Designer - Die and Mould for Plastic is awarded by RCPSPDC only.
<b>Industry Relevance</b>	<ul style="list-style-type: none"> <li>The industry validation is submitted along with its summary sheet for reference.</li> </ul>	N/A. The certifications for the job role of a Designer - Die and Mould for Plastic is awarded by RCPSPDC only.
<b>Usage of the qualification</b>	<ul style="list-style-type: none"> <li>This Qualification Pack will be used across industry which is organised.</li> <li>The training institute would use it new trainings/For employers to conduct RPL and for annual Appraisal.</li> <li>The SSC would submit details of the employment generated (wherever applicable) and realised.</li> </ul>	N/A. The certifications for the job role of a Designer - Die and Mould for Plastic is awarded by RCPSPDC only.
<b>Estimated uptake</b>	<p>RCPSDC conducted skill gap studies in different states of the country to understand the demand and supply for Designer - Mould and Die for Plastic.</p> <p>Assuming, the study findings as the basis for entire rubber industry across the nation, employment opportunity is expected to grow approximately at the rate of 30% in the coming 5 years.</p> <p>(Refer: <a href="http://rsdcindia.in/www/knowledge-bank/">http://rsdcindia.in/www/knowledge-bank/</a> for the published reports)</p>	N/A. The certifications for the job role of a Designer - Die and Mould for Plastic is awarded by RCPSPDC only.

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**Recommendation from the concerned Line Ministry of the Government/Regulatory Body. To be supported by documentary evidences**

Line ministry is under process.

**What steps were taken to ensure that the qualification(s) does (do) not duplicate already existing or planned qualifications in the NSQF? Give justification for presenting a duplicate qualification**

This Qualification is being new.

Mapping has been done with National Classification of Occupation 2015 to ensure the qualification does not duplicate.

**What arrangements are in place to monitor and review the qualification(s)? What data will be used and at what point will the qualification(s) be revised or updated? Specify the review process here**

Technical Committee's inputs are sought from time-to-time as needed to check the relevance of QP/ NOSs, and the revision exercise is undertaken, as needed. This revised is a continuous improvement process.

Please attach any documents giving further information about any of the topics above.

Give the titles and other relevant details of the document(s) here. Include page references showing where to find the relevant information.

## NSQF QUALIFICATION FILE

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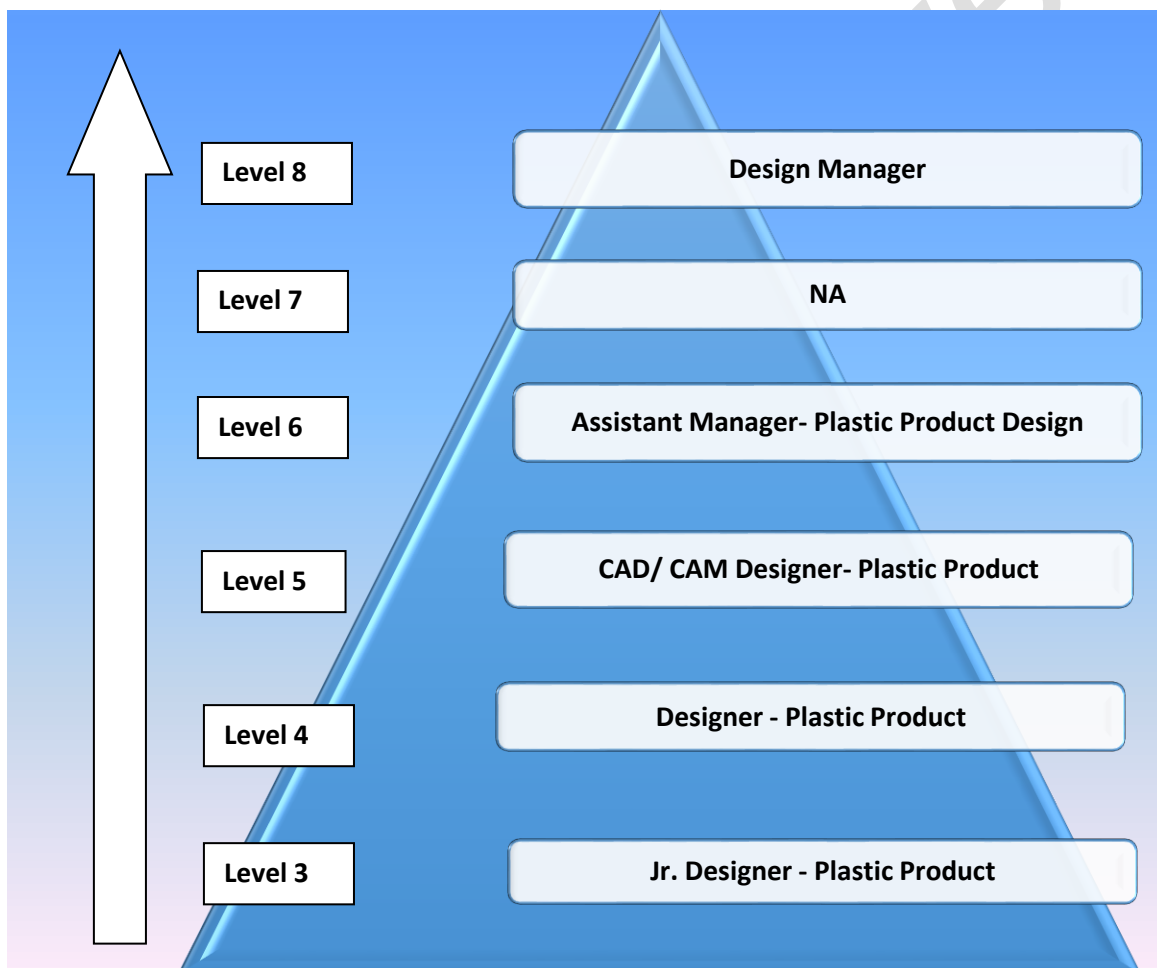
### SECTION 4

#### EVIDENCE OF PROGRESSION

**What steps have been taken in the design of this or other qualifications to ensure that there is a clear path to other qualifications in this sector?**

Mobility options to other qualifications are enabled through the alignment of educational qualifications and prior work experience stated as a requirement in the respective qualifications.

For example: Post qualifying the certification of Designer - Mould and Die for Plastic, candidate has an option to qualify for next Job role for Production/Manufacturing Plastic Processing Vertical Progression.



Please attach any documents giving further information about any of the topics above.

#### Refer

Annexure 2: Qualification Pack (QP)

Annexure 1: Occupational Map of the sector

Give the titles and other relevant details of the document(s) here. Include page references showing where to find the relevant information.