



QUALIFICATION FILE

MACHINE OPERATOR – PLASTICS PROCESSING

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: 3.5

Submitted By:

Central Institute of Petrochemicals Engineering & Technology (CIPET)
Department of Chemicals & Petrochemicals, Ministry of Chemicals & Fertilizers, Govt. of India
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Section 1: Basic Details

1.	Qualification Name	Machine Operator – Plastics Processing																	
2.	Sector/s	Chemicals & Petrochemicals (CPC)																	
3.	Type of Qualification: <input type="checkbox"/> New <input checked="" type="checkbox"/> Revised <input type="checkbox"/> Has Electives/Options <input type="checkbox"/> OEM	NQR Code & version of existing/previous qualification: <i>(change to previous, once approved) - 2021/CP/CIPET/04622</i>	Qualification Name of existing/previous version: Version: Machine Operator – Plastics Processing (MO-PP)																
4.	a. OEM Name b. Qualification Name <i>(Wherever applicable)</i>	Not Applicable																	
5.	National Qualification Register (NQR) Code&Version <i>(Will be issued after NSQC approval)</i>	QG-3.5-CP-04116-2025-V2-CIPET	6. NCrF/NSQF Level: Level 3.5																
7.	Award (Certificate/Diploma/Advance Diploma/Any Other) <i>(Wherever applicable specify multiple entry/exits also & provide details in annexure)</i>	Certificate																	
8.	Brief Description of the Qualification	The Machine operator handles the plastic granules (raw material), sets up and operates the plastic processing machines, finishes the product & stores in desired place.																	
9.	Eligibility Criteria for Entry for Student/Trainee/Learner/Employee	a. Entry Qualification & Relevant Experience:																	
		<table border="1"> <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>Grade 11th</td> <td>No Experience required</td> </tr> <tr> <td>2.</td> <td>Grade 10th or equivalent</td> <td>1.5 years relevant experience</td> </tr> <tr> <td>3.</td> <td>8th grade</td> <td>4.5 years relevant experience</td> </tr> <tr> <td>4.</td> <td>Previous relevant Qualification of NSQF Level 3</td> <td>1.5 years relevant experience</td> </tr> </tbody> </table>			S. No.	Academic/Skill Qualification (with Specialization - if applicable)	Required Experience (with Specialization - if applicable)	1.	Grade 11 th	No Experience required	2.	Grade 10 th or equivalent	1.5 years relevant experience	3.	8 th grade	4.5 years relevant experience	4.	Previous relevant Qualification of NSQF Level 3	1.5 years relevant experience
S. No.	Academic/Skill Qualification (with Specialization - if applicable)	Required Experience (with Specialization - if applicable)																	
1.	Grade 11 th	No Experience required																	
2.	Grade 10 th or equivalent	1.5 years relevant experience																	
3.	8 th grade	4.5 years relevant experience																	
4.	Previous relevant Qualification of NSQF Level 3	1.5 years relevant experience																	
10.	Credits Assigned to this Qualification, Subject to Assessment <i>(as per National Credit Framework (NCrF))</i>	20		11. Common Cost Norm Category (I/II/III) <i>(wherever applicable): I</i>															
12.	Any Licensing requirements for Undertaking Training on This Qualification <i>(wherever applicable)</i>	-																	

13. Training Duration by Modes of Training Delivery (<i>Specify Total Duration as per selected training delivery modes and as per requirement of the qualification</i>)	<input checked="" type="checkbox"/> Offline <input type="checkbox"/> Online <input type="checkbox"/> Blended					
	Training Delivery Modes	Theory (Hours)	Practical (Hours)	OJT Mandatory (Hours)	OJT Recommended (Hours)	Total (Hours)
	Classroom (offline)	210	360	30	-	600
	Online	-	-	-	-	-
<i>(Refer Blended Learning Annexure for details)</i>						
14. Aligned to NCO/ISCO Code/s (<i>if no code is available mention the same</i>)	NCO-2015/8142					
15. Progression path after attaining the qualification (<i>Please show Professional and Academic progression</i>)	Shift In-charge / Supervisor in Plastics Processing Industry					
16. Other Indian languages in which the Qualification & Model Curriculum are being submitted	Hindi					
17. Is similar Qualification(s) available on NQR-if yes, justification for this qualification	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No URLs of similar Qualifications:					
18. Is the Job Role Amenable to Persons with Disability	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If "Yes", specify applicable type of Disability:					
19. How Participation of Women will be Encouraged	During selection of candidates for the training programme, Female candidates are given preference					
20. Are Greening/ Environment Sustainability Aspects Covered (<i>Specify the NOS/Module which covers it</i>)	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No					
21. Is Qualification Suitable to be Offered in Schools/Colleges	Schools <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Colleges <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No					
22. Name and Contact Details of Submitting / Awarding Body SPOC (<i>In case of CS or MS, provide details of both Lead AB & Supporting ABs</i>)	Name: Arunav Banerjee Email: cipethovtc@cipet.gov.in Contact No.: 9402183512 Website: www.cipet.gov.in					
23. Final Approval Date by NSQC: 26.05.2025	24. Validity Duration: 3 Years			25. Next Review Date: 25.05.2028		

Section 2: Module Summary

NOS/s of Qualifications

(In exceptional cases these could be described as components)

Mandatory NOS/s: 9

Specify the training duration and assessment criteria at NOS/ Module level. For further details refer to the 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/N SQF 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.	Familiarization with basic concepts, job requirements & basic related process.	CPC/N0113 & V2.0	Core	3.5	1	10	20	-	-	30	22	46	-	-	68	-
2.	To know about different plastic material	CPC/N0114 & V2.0	Core	3.5	2	20	40	-	-	60	20	30	-	-	50	-
3.	Familiarized with various Plastics processing techniques & to assist the Operator in Injection Moulding& its Troubleshooting	CPC/N0115 & V2.0	Core	3.5	5	50	100	-	-	150	50	100	-	-	150	-
4.	Familiarized with various Plastics processing techniques & to assist the Operator in Extrusion & its Troubleshooting	CPC/N0116 & V2.0	Core	3.5	4	40	80	-	-	120	50	100	-	-	150	-
5.	Familiarized with various Plastics processing techniques & to assist the Operator in Blow Moulding& its Trouble shooting etc.	CPC/N0117 & V2.0	Core	3.5	4	40	80	-	-	120	30	70	-	-	100	-
6.	Maintain basic health and safety practices at the workplace, 5S.	CPC/N0411 & V2.0	Core	3.5	1	10	20	-	-	30	10	30	-	-	40	-
7.	Basics of MS Office / Open Source office suite software	CPC/N0219 & V2.0	Non-Core	3.5	1	10	20	-	-	30	8	14	-	-	22	-
8.	Employability Skills	DGT/VSQ/N0101 & V1.0	Non-Core	3.5	1	30	-	-	-	30	10	10	-	-	20	-
9.	On the Job Training (OJT)	N/A	Core	3.5	1	-	-	30	-	30	-	-	-	-	-	-
Duration (in Hours) / Total Marks			-	-	20	210	360	30	-	600	200	400	-	-	600	-

Elective NOS/s:

S. No	NOS/Module Name	NOS/Module Code & Version (if applicable)	Core/Non-Core	NCrF/N SQF 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.																
2.																
Duration (in Hours) / Total Marks																

Optional NOS/s:

S. No	NOS/Module Name	NOS/Module Code & Version (if applicable)	Core/Non-Core	NCrF/N SQF 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.																
2.																
Duration (in Hours) / Total Marks																

Assessment - Minimum Qualifying Percentage

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

Minimum Pass Percentage –Aggregate at qualification level:

50% for theory and 70% for practical (Every Trainee should score specified minimum aggregate passing percentage at qualification level to successfully clear the assessment.)

Minimum Pass Percentage –NOS/Module-wise:

(Every Trainee should score a specified minimum passing percentage in each mandatory and selected elective NOS/Module to successfully clear the assessment.)

Section 3: Training Related

1.	Trainer's Qualification and experience in the relevant sector (in years) (as per NCVET guidelines)	Diploma with minimum 2 years experience in field of Plastics / Polymer Engineering / Technology
2.	Master Trainer's Qualification and experience in the relevant sector (in years) (as per NCVET guidelines)	B.E. / B.Tech. / M.Sc. with 2 years experience in the field of Plastics / Polymer Engineering / Science
3.	Tools and Equipment Required for Training	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No (If "Yes", details to be provided in Annexure)
4.	In Case of Revised Qualification, Details of Any Upskilling Required for Trainer	Nil

Section 4: Assessment Related

1.	Assessor's Qualification and experience in relevant sector (in years) (as per NCVET guidelines)	Diploma with minimum 5 years experience in the field of Plastics / Polymer Engineering / Technology or B.E. / B.Tech. with minimum 2 years experience in the field of Plastics / Polymer Engineering / Technology
2.	Proctor's Qualification and experience in relevant sector (in years) (as per NCVET guidelines)	Diploma with minimum 6 years experience in the field of Plastics / Polymer Engineering / Technology or B.E. / B.Tech. with minimum 3 years experience in the field of Plastics / Polymer Engineering / Technology
3.	Lead Assessor's/Proctor's Qualification and experience in relevant sector (in years) (as per NCVET guidelines)	B.E. / B.Tech. with minimum 4 years experience in the field of Plastics / Polymer Engineering / Technology or M.E. / M.Tech. with minimum 2 years experience in the field of Plastics / Polymer Engineering / Technology
4.	Assessment Mode (Specify the assessment mode)	Physical Assessment
5.	Tools and Equipment Required for Assessment	<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.	Latest Skill Gap Study (not older than 2 years) (Yes/No): NO
2.	Latest Market Research Reports or any other source (not older than 2 years) (Yes/No): NO
3.	Government /Industry initiatives/ requirement (Yes/No): YES
4.	Number of Industry validation provided: 05
5.	Estimated nos. of persons to be trained and employed: 8000 Candidates
6.	Evidence of Concurrence/Consultation with Line Ministry/State Departments: YES If "No", why:

Section 6: Annexure & Supporting Documents Checklist

Specify Annexure Name / Supporting document file name:

1.	<p>Annexure: NCrF/NSQF level justification based on NCrF level/NSQF descriptors <i>(Mandatory)</i></p>	<ul style="list-style-type: none"> • Entry Qualification for this course is Grade 11th with No Experience required OR Grade 10th or equivalent with 1.5 years relevant experience OR Grade 8th with 4.5 years relevant experience OR Previous relevant Qualification of NSQF Level 3 with 1.5 years relevant experience • After successful completion of training, Trainee / Candidates are eligible for Shift Incharge/ Supervisor in the Plastics Processing Industry. • Job description: The Machine operator handles the plastic granules (raw material), sets up and operates the plastic processing machines, finishes the product & stores in the desired place.
2.	<p>Annexure: List of tools and equipment relevant for qualification <i>(Mandatory, except in case of online course)</i></p>	<p>Equipment Required: Classroom Equipment: LCD Projector/Screen, Computer, charts, Black / White board & Duster. Measuring Equipment: Steel Ruler, Micrometre, Vernier Calliper, Radius gauge, Feeler gauge, Steel measuring tape, Weighing Balance (1 No.) Hand Tools: Hammer, screwdriver set with Multiple heads, Allen key hexagonal, Files, Hacksaw, adjustable, Spanner set double side, Adjustable spanner Personal Protective Equipment: Safety Goggles, Rubber Gloves, Asbestos gloves, Fire Extinguisher, Apron, Helmet, First Aid Box with Medicines. Plastics raw material: PP, HDPE, ABS, PPCP..etc., for training on machines of Injection Moulding, Blow Moulding, Extrusion, Rotational Moulding, etc. Mould: Hand mould, Two/Three plate moulds, Blow Mould, Rotational Moulds & Extrusion Die. Auxiliaries equipments: Automatic Hopper Loader, Hot air oven and Dryer, Dehumidifier, Mould Temperature Controller, Scrap Grinder, Crane, Air Compressor, Hot air blow Gun, Water cooling Tower Hand operated Injection Moulding Machine Semi-Automatic Horizontal / Vertical Injection Moulding Machine Fully Automatic Horizontal Injection Moulding Machine Microprocessor Based Injection Moulding Machine Hand Operated Blow Moulding Rotational Moulding Machines &Pulveriser Semi-Automatic Blow Moulding Machine Fully Automatic Single stage Blow Moulding machine Full Automatic Double stage Blow Moulding machine Injection stretch Blow Moulding Machine Single Screw pipe Extrusion plant (HDPE) with accessories Twine screw pipe Extrusion plant (PVC) with accessories</p>

3.	Annexure: Detailed Assessment Criteria (<i>Mandatory</i>)	<ol style="list-style-type: none"> 1. Criteria for assessment for each Qualification Document are being created by CIPET. 2. Each Assessable outcome (AO) will be assigned marks proportional to its importance in Learning Outcome and few performance criteria may be allotted marks in combination. 3. Each Learning outcome will be assessed both for theoretical knowledge and practical knowledge which is being proportionately demonstrated in the table below. 4. The assessment for the theory part will be based on a knowledge bank of questions created by CIPET which will contain multiple choice theory questions and a Practical question database with mark allotment criteria. 5. To pass the Qualification Document, every trainee should score a minimum of 50% in Functional and all Generic Learning Outcomes. 6. In case of successfully passing only a certain number of Learning Outcomes, the trainee is eligible to take Subsequent assessment on the balance Learning Outcomes to pass the Qualification Document.
4.	Annexure: Assessment Strategy (<i>Mandatory</i>)	<p>Assessment strategy:</p> <ul style="list-style-type: none"> ● Assessment criteria for Qualification Document have been developed. Each Learning outcome has separate marks for Theory and Practical Skills. ● The Training Assessment Wing will have assessors who will not be associated with training activities and will be provided training on the said work. Thus it will ensure that the assessment carried out is fair and consistent. ● Set of question banks developed to assess theoretical and practical knowledge. To ensure the quality, each trainee gets a unique set of questions. ● Trainees have to score minimum marks separately for theoretical and practical skill and overall percentage should also be 50% for theory and 70% for practical. ● Empanelment of subject matter expert as assessor to assess trainees specifically on practical skills. ● Assessments are preferably conducted by written examination papers in English/ regional languages according to the requirement. ● It has been ensure that TP/trainer should not be present during assessment.
5.	Annexure: Blended Learning (<i>Mandatory, in case selected Mode of delivery is “Blended Learning”</i>)	-
6.	Annexure: Multiple Entry-Exit Details (<i>Mandatory, in case qualification has multiple Entry-Exit</i>)	-
7.	Annexure: Acronym and Glossary (<i>Optional</i>)	-
8.	Supporting Document: Model Curriculum (<i>Mandatory – Public view</i>)	Enclosed as Annexure-I
9.	Supporting Document: Career Progression (<i>Mandatory - Public view</i>)	Enclosed as Annexure-II
10.	Supporting Document: Occupational Map (<i>Mandatory</i>)	Enclosed as Annexure-III
11.	Supporting Document: Assessment SOP (<i>Mandatory</i>)	Enclosed as Annexure-IV
12.	Any other document you wish to submit:	Enclosed as Annexure-V

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
Professional Theoretical Knowledge/Process	<p>Machine Operator - Plastic Processing is expected to ensure housekeeping and safety in the production area and select the correct die, etc he/she has to-</p> <ul style="list-style-type: none"> ● Understanding the work order and the process requirement from the supervisor ● Arranging the required raw material and Dies for the process ● To interact with the supervisor in order to understand the production schedule ● To plan the day's production activities based on the supervisor's instructions ● To collect material data sheet, machine instructions and work manuals ● To ensure availability of consumables and plastics materials for production in sufficient quantity as per production plan/supervisor instructions. ● Clearly understanding the does and don'ts of the manufacturing process as defined in SOPs/ Work Instructions or defined by supervisors. ● Check availability of the personal protective equipment's (PPE) like Gloves, Goggles etc. ● Ensure that the required material is procured from the store before starting the process ● Understand the dies/Moulds required for executing the required operation and ensure that the same is available for operation. ● If die is not available collect the same from die storage area ● Add the raw material in the machine using a material loader or by manual feeding. ● Ensure dies are clean if not clean with soft cotton cloth. ● Ensure cleaning of the area around the apparatus for any oil, grease, combustible substances etc. so as to prevent any accident ● Ensure availability of the coolant and working of valves to circulate the coolant to cool and solidify plastic ● Understand the raw material like plastics granules, fillers, bonding additives etc. required for executing the activity ● Refer the queries to supervisor if they cannot be resolved by the operator ● Confirm self - understanding to the supervisor once the query is resolved so that all doubts & queries can be resolved before the actual process execution ● He is responsible for checking the operations of the equipment ● Feeding the granules as per requirement ● Perform visual inspection of the output products ● Achieve productivity, quality and safety standards as per company's norms ● Report problems to supervisor 	<p>Machine Operator - Plastic Processing job requires limited range of activities which are familiar and predictable like availability of consumables, safety PPE, raw material used, basic machine parts and its functions etc.</p> <p>He/She should understand the raw material like plastics granules, fillers, bonding additives etc. required for executing the activity, Dies /Mould required, their types etc.</p>	3.5

	<ul style="list-style-type: none"> ● He will be responsible for inspecting the finished components ● conducting minor repair/de-flashing if any on output parts which can be reworked ● The role holder will interact with maintenance team and material management team ● The individual needs to ensure sorting, streamlining & organizing, storage and documentation, cleaning, standardization and sustenance across the plant and office premises of the organization ● He needs to understand Market Information Management ● Client Relation Management ● Marketing knowhow and strategy <p>He/She also needs to understand and practice Entering, updating and maintaining data in MS Office system/ Office open source system.</p>		
<p>Professional and Technical Skills/ Expertise/ Professional Knowledge</p>	<p>The user/individual on the job needs to know and understand:</p> <ul style="list-style-type: none"> ● General Principle of moulding procedure, process knowledge, machine startup & shutdown procedures, moulds loading and unloading procedure. ● Types of different thermoplastics materials, additives and grades for different plastics products. ● Identification & Troubleshooting of various defects in products produced in the various plastics processing machineries like Injection, Extrusion, Rotational Moulding and Blow. 	<p>A Machine Operator- Plastic Processing should understand and know factual knowledge about process, principle of plastics Processing Technique like Injection, Extrusion, Blow, Rotational Moulding and its operation, trouble shooting, Quality and Inspection etc.</p>	<p>3.5</p>
<p>Employment Readiness & Entrepreneurship Skills & Mind-set/Professional Skill</p>	<p>The user/individual on the job needs to know and understand:</p> <ul style="list-style-type: none"> ● General principles of plastics processing, Knowledge about die loading and unloading procedure, parameter settings etc. ● Types of plastics like thermoplastics and the additives & grades to be used tonnage and capacity of the machine being operated. ● Different types of tools and machinery to process the plastic and trim the output ● Various types of cooling systems and their properties. ● How to perform extrusion machine safety check ● Hazards and safety aspects involved in tape production and usage of relevant PPEs ● Safety procedures to be adopted to complete die removal process ● Detect problems in day to day tasks: <p>Support operator in using specific problem solving techniques and detailing out the problems</p> <ul style="list-style-type: none"> ● Discuss possible solutions with the supervisor for problem solving. <p>The user/individual on the job needs to know and understand how to:</p> <ul style="list-style-type: none"> ● Plan and organize the work order and jobs received from the internal customers/ operator. ● Organize all process/ equipment manuals so that sorting out <p>The user/individual on the job needs to know and understand how to:</p> <ul style="list-style-type: none"> ● Follow instructions and work on areas of improvement identified 	<p>A Machine Operator Plastic Processing should be familiar with the general principles and procedures of plastics processing, which often involve repetitive tasks in their assigned area. They should know the different types of plastics, such as thermoplastics, along with the additives and grades used, as well as the types and applications of dies and moulds. The operator should demonstrate practical skills in routine plastic processing tasks and have a good understanding of quality concepts relevant to their area of work.</p>	<p>3.5</p>

	<ul style="list-style-type: none"> • Complete the assigned tasks with minimum supervision • Complete the job defined by the operator within the timelines and quality. • The user/individual on the job needs to know and understand how to: <ul style="list-style-type: none"> • Use common sense and make judgments during day to day basis • Use basic reasoning skills to identify and resolve basic problems • Use intuition to detect any potential problems which could arise during operations. • He needs to know about entrepreneurship associated with plastics extrusion, its concepts etc. • He needs to know about marketing strategy involved for the products manufactured, market availability etc. 		
Broad Learning Outcomes/Core Skill	<p>The user/ individual on the job needs to know and understand how to:</p> <ul style="list-style-type: none"> • How to be able to read warnings, instructions and other text material on product labels, components etc • How to enter into the history card details of the fault identified in the plastic product manufactured read equipment manuals and process documents to understand the equipment and processes better. • Read instructions especially safety instructions especially symbols while using the equipment in the plant area logs. <p>The user/individual on the job needs to know and understand how to:</p> <ul style="list-style-type: none"> • Discuss task lists, schedules, and work-loads with co-workers/assistants and supervisors • Question internal customers/ Shop floor operator appropriately in order to understand the nature of the problem and make a diagnosis • Avoid using jargon, slang or acronyms when communicating with an operator /fellow subordinates etc. Unless it is required. 	A Machine Operator in Plastic Processing should be able to read and write warnings, instructions, and other text on product labels and components with sufficient clarity. They should also possess basic arithmetic skills, such as adding raw material weights.	3.5
Responsibility	MachineOperator - Plastic Processing is responsible for his own job and self-learning. He/sheSet up basic as well as all critical machine controls and operate Plastics Injection, Extrusion and Blow Machine in order to produce good quality products as per approved specifications by supervisor, Identify and Troubleshoot the defects occurring during production of plastics product. He may need to control/ check multiple machines at a time.	Plastic Processing operator is responsible for his own job and learning in Injection Moulding, Extrusion, Blow & RotationalMoulding process which justifies the pegging of the QP.	3.5

Annexure: Tools and Equipment(Lab Set-Up)

List of Tools and Equipment

Batch Size: Maximum 50 candidates per batch

S. No.	Tool / Equipment Name	Specification	Quantity for specified Batch size
1	Measuring equipment	Steel Ruler, Micrometer, Vernier Caliper, Radius gauge, Feeler gage, Steel measuring tape, Weighing Balance (1 No.)	As per requirement
2	Hand Tools	Hammer, screwdriver set with Multiple heads, Allen key hexagonal , Files, Hacksaw, adjustable, Spanner set double side, Adjustable spanner	As per requirement
3	Personal Protective equipment	Safety Goggles, Rubber Gloves, Asbestos gloves, Fire Extinguisher, Apron, Helmet, First Aid Box with Medicines	As per requirement
4	Plastics raw material	PP, HDPE, etc. for training on machines of injection, Blow and Extrusion grade	As per requirement
5	Mould	Hand mould, Two/Three plate mould, Blow Mould, Rotational Moulds and Extrusion Die	As per requirement
6	Equipment & Auxiliaries Equipment	Hand operated Injection Moulding Machine Semi-Automatic Horizontal / Vertical Injection Moulding Machine Fully Automatic Horizontal Injection Moulding Machine Microprocessor Based Injection Moulding Machine Hand Operated Blow Moulding Rotational Moulding Machines &Pulveriser Semi-Automatic Blow Moulding Machine Fully Automatic Single stage Blow Moulding machine Full Automatic Double stage Blow Moulding machine Injection stretch Blow Moulding Machine Single Screw pipe Extrusion plant (HDPE) with accessories Twine screw pipe Extrusion plant (PVC) with accessories Automatic Hopper Loader, Hot air oven and Dryer, De humidifier, Mould Temperature Controller, Scrap Grinder, Pulveriser Crane, Air Compressor, Hot air blow Gun, Water cooling Tower	As per requirement

Classroom Aids

The aids required to conduct sessions in the classroom are:

1. LCD Projector/Screen,
2. Computer
3. Charts
4. 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	Kachnar Polymers Pvt. Ltd.,	Mr. Rishi Chouksey	HR	Plot 18/1-2, Village Kheri, Katangi Main Road, Beside State Bank of India, Belkhadu Branch, Tehsil Panagar, Dist., Jabalpur, Madhya Pradesh	7772839051	kachnarpolymers@gmail.com	-
2	Zazen Industries	Mr. Prateek Jain	Proprietor	265, Durgesh Vihar, Near Minal Residency, Behind Surjit Hyundayi Showroom, JK Road, Bhopal – 462 023, Madhya Pradesh	9630496303	zazenindustries@rediffmail.com	-
3	The Supreme Industries Limited	Mr. Aditya P Bhatnagar	Plant Manager	BR Industrial Park Phase-1, Vill – Dinkar, P.O–Baihata, P.S–Kamapur, Dist – Kamrup, Assam – 781380.	8695623502	Aditya_bhatnagar@supreme.co.in	-
4	Relisys Medical Devices Limited	Mr. I Rajendra Prasad	AGM-HR	Sy. No.: 312, Pocharam Road, Mangalpally Village, Ibrahimpatnam Mandal, R. R. District, Pin – 501 510, Telangana	9866170090	rp@relisysmedicaldevices.org	-
5	Ranjoy Plastic Industry	Mr. S. Roshan Meetei	Manager	Takyel Industrial Estate, Imphal West, Manipur - 795001	7005577078	ranjoyplastic@gmail.com	-
6	SKC Poly Engineering Pvt. Ltd.,	Mr. Rajendra R. Chaudhari	Director	Plot No. A-41 & A-42/01, MIDC Area, Shendra, Chh. Sambhajinagar, Aurangabad – 431007, Maharashtra	9822202071	skcpoly@gmail.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
2024-25	2000	1700	350	300	-	-
2025-26	2000	1700	370	310	-	-
2026-27	2500	1800	430	360	-	-

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
1.0	2021-22	1758	1758	1758	1391	263	263	263	216	-	-	-	-
1.0	2022-23	3026	3026	3026	2427	486	486	486	391	-	-	-	-
1.0	2023-24	2738	2738	2738	2225	392	392	392	314	-	-	-	-

Applicable for revised qualifications only, data to be provided year-wise for past 3 years.

List Schemes in which the previous version of Qualification was implemented:

1. CSR Scheme
2. PM-DAKSH Scheme
3. NSSH Scheme

Content availability for previous versions of qualifications:

Participant Handbook Facilitator Guide Digital Content Qualification Handbook Any Other:

Languages in which Content is available: English & Hindi

Blended Learning Estimated Ratio & Recommended Tools:

Refer NCVET “Guidelines for Blended Learning for Vocational Education, Training & Skilling” available

on:<https://ncvet.gov.in/sites/default/files/Guidelines%20for%20Blended%20Learning%20for%20Vocational%20Education,%20Training%20&%20Skilling.pdf>

S. No.	Select the Components of the Qualification	List Recommended Tools – for all Selected Components	Offline : Online Ratio
1	Theory/ Lectures - Imparting theoretical and conceptual knowledge		
2	Imparting Soft Skills, Life Skills, and Employability Skills /Mentorship to Learners		
3	Showing Practical Demonstrations to the learners		
4	Imparting Practical Hands-on Skills/ Lab Work/ workshop/ shop floor training		
5	Tutorials/ Assignments/ Drill/ Practice		
6	Proctored Monitoring/ Assessment/ Evaluation/ Examinations		
7	On the Job Training (OJT)/ Project Work Internship/ Apprenticeship Training		

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
1. CPC/N0113: Familiarization with basic concepts, job requirements & basic related processes.	AO1. Discuss the work order (work output) required from the process and with the supervisor	1	3		
	AO2. Refer all components / process related documents to understand dimensions and properties of the required work output	1	3		
	AO3. Understand the process requirements in terms of temperature of the heater, hydraulic pressure/air pressure/ vacuum pressure, rotating speed of the screw pressure, injection time, refilling time, blowing time etc. as mentioned in the Work Instruction/ SOP/ Control Diagrams	2	3		
	AO4. Clearly understanding the does and don'ts of the manufacturing process as defined in SOPs/ Work Instructions or defined by supervisors	2	3		
	AO5. Understand the conversion procedure and process to be adopted for completing the work order from the supervisor by referring the Work Instruction document/ SOP manual	2	3		
	AO6. Set the various parameters like temperature of the heaters, hydraulic pressure/air pressure/ vacuum pressure, rotating speed of the screw, screw pressure, regulating current, flow of coolant/ water etc. before starting the process as per the parameters are mentioned in the Work Instructions/ SOP manual	2	3		
	AO7. Understand the raw material like plastics granules, bonding additives etc. required for executing the activity	2	3		
	AO8. Ensure that the required material is available before starting the process	1	2		
	AO9. Understand the type of Mould /Die required for executing the required conversion operation and ensure that the same is available for moulding operations	1	3		
	AO10. Ensure the availability of spare parts for continuous operation of machine	1	3		
	AO11. Ensure that mould / Die are cleaned properly & no foreign material is entrapped in parts of mould/die.	1	3		
	AO12. Ensure cleaning of the other moulding machine tools, auxiliaries(if any)	1	3		
	AO13. Ensure cleaning of the area around the machine for any oil, grease, water etc	1	3		
	AO14. Consult with superiors in case of any doubt/clarification	1	1		
	AO15. Self-confidence after resolving the queries to complete the task.	1	1		
	AO16. Report completion of work to superiors	0.5	1.5		
	AO17. Good interpersonal relations with superiors & fellow operators.	0.5	1.5		
	AO18. Disciplined behavior in workplace	0.5	1.5		
	AO19. Good coordination with other department personnel for getting their support for work.	0.5	1.5		
	Sub total	22	46		
2. CPC/N0114 : To know about different plastic material	AO1. Discuss about the type of raw material being used in the industry & for work Order required for the process and with the supervisor	2	2		
	AO2. Refer all material related documents to understand properties of the required work output and able to identify the material	2	3		

	AO3. Understand the process requirements for the Plastics material in terms of temperature of the heater, rotating speed of the Screw, pressure, injection as mentioned in the Work Instruction / SOP / Control Diagrams	2	3		
	AO4. Understand the melting temperature, processing temperature etc. for plastic raw material	2	3		
	AO5. Understand the processing characteristics of the plastics material being used for conversion procedure and process to be adopted for completing the work order from the supervisor by referring the Work Instruction document / SOP manual	2	3		
	AO6. Ensure that the required material is available before starting the process	2	3		
	AO7. Ensure that the plastics material is blended with requisite additives	2	3		
	AO8. Ensure that machine / mould / Die are cleaned properly & no foreign material is entrapped in parts of the machine / mould / die.	2	3		
	AO9. Ensure cleaning of the materials spilled around the machine	2	4		
	AO10. Ensure cleaning of the area around the machine for any oil, grease, water etc	2	3		
	Sub total	20	30		
3. CPC/N0115: Operate the Injection moulding machine & its troubleshooting	AO1. Planning work schedule in concurrence with Superior	1	2		
	AO2. Obtain and check the data on the job card and carry out functions in line with the responsibilities of job role	1	2		
	AO3. Ensure availability of data sheet, manual, work instructions	1	2		
	AO4. for power supply, hydraulic oil level, water connections	1	2		
	AO5. Ensure availability of the tools ,materials & ancillary equipments for the work	1	2		
	AO6. Setup the equipment & machineries as per the job requirement	1	2		
	AO7. Update and develop knowledge of the products	1	2		
	AO8. Planning for Minimum wastage & its safe disposal	1	2		
	AO9. Work in conformance to legal requirements, organizational policies and procedures	1	4		
	AO10. Ensure that the mould is ready & having no problem in dry run	1	4		
	AO11. Check material is available for production. If required arrange for pre drying	2	4		
	AO12. Check the availability & readiness of ancillary equipments like chiller, mould Temperature controller, hopper loader, Cooling towers etc	2	4		
	AO13. Load the material and pigment (if required) in the hopper	2	4		
	AO14. Set the parameters of the machine i.e temperature, pressure, speed etc	2	4		
	AO15. Check the temperature on the barrel with respect to set temperature	2	4		
	AO16. Conduct trial run to get sample piece once machine is set	2	3		
	AO17. Adjust parameters unless getting final product	2	3		
	AO18. Visual check of final product	2	3		
	AO19. Define accepted products and defective products as per approved plan	2	3		
	AO20. Carry out post molding operation during the cycle time run such as. trimming, apply protective tapes, putting labels on each product for identification	2	3		
	AO21. Store the final product in specified area	2	3		
	AO22. Clean the machine & equipments at regular interval	2	3		
	AO23. Work in compliance with specified health and safety standards	1	3		
	AO24. Preventive maintenance of machines & ancillary equipments	1	3		
	AO25. Coordination with maintenance department for resolving breakdown maintenance in minimum	1	3		

	possible time.				
	AO26. Root cause analysis of moulding defects	1	2		
	AO27. Analysis of data sheets available in department	1	2		
	AO28. Taking all corrective & preventive action	1	2		
	AO29. Reporting the problems caused by machines to superior, when not resolved by operator.	1	2		
	AO30. Report defects in the moulds that one do not have the authority to repair	1	2		
	AO31. Report major processing defects beyond control of operator	1	2		
	AO32. Keeping records of machine log book, data sheet of machine parameter	1	2		
	AO33. Documents related to incoming & outgoing material	1	2		
	AO34. Meet targets & goals for production	1	2		
	AO35. Minimize defects in final product	1	2		
	AO36. Follow quality system to get better product	1	2		
	AO37. Keep work area clean & systematic	1	2		
	AO38. Comply to safety & health guidelines & rules	1	2		
	Sub total	50	100		
4. CPC/N0116: Operate the extrusion machine & its troubleshooting	AO1. Planning work schedule in concurrence with Superior	1.5	2		
	AO2. Obtain and check the data on the job card and carry out functions in line with the responsibilities of job role	1.5	2		
	AO3. Ensure availability of data sheet, manual, work instructions	1.5	2		
	AO4. Check for power supply, oil level in gear box, water connections	1.5	2		
	AO5. Ensure availability & functioning of the tools, materials & ancillary equipments like Air Compressor, Cooling Tower, High Speed Mixer etc for the work	1.5	2		
	AO6. Setup the equipment & machineries as per the job requirement	1.5	2		
	AO7. Update and develop knowledge of the products to be produced	1.5	2		
	AO8. Planning for Minimum rejection & its safe reuse/disposal	1.5	2		
	AO9. Safety aspects of machine operation	1.5	2		
	AO10. Work in conformance to legal requirements, organizational policies and procedures	1.5	2		
	AO11. Check material is available for production. Compounding / Color blending	1.5	2		
	AO12. Check the availability & readiness of ancillary equipments like air compressor, hopper loader, dehumidifier, Cooling towers etc	1.5	3.5		
	AO13. Load the material in the hopper	1.5	3.5		
	AO14. Set the parameters of the machine i.e temperatures, speed etc	1.5	3.5		
	AO15. Check the temperature on the barrel with respect to set temperature	1.5	3.5		
	AO16. Conduct trial run to get extruded sample once machine is set	1.5	3.5		
	AO17. Adjust parameters unless getting final product	1.5	3.5		
	AO18. Visual check of final product	1.5	3.5		
	AO19. Define accepted products and defective products as per approved plan	1.5	3.5		
	AO20. Corona treatment & printing, if required	1.5	3.5		
	AO21. Store the final product in specified area	1.5	3.5		
	AO22. Clean the machine & equipments at regular interval	1	3.5		
	AO23. Work in compliance with specified health and safety standards				

	AO24. Preventive maintenance of machines & ancillary equipments				
	AO25. Coordination with maintenance department for resolving breakdown maintenance in minimum possible time.	1.5	3.5		
	AO26. Root cause analysis of extrusion defects	1.5	3.5		
	AO27. Analysis of data sheets available in department	1.5	3.5		
	AO28. Taking all corrective & preventive action	1.5	3.5		
	AO29. Reporting the problems caused by machines to superior, when not resolved by operator.	1.5	3.5		
	AO30. Report defects in the moulds that one do not have the authority to repair	1	3.5		
	AO31. Report major processing defects beyond control of operator	1	2.5		
	AO32. Keeping records of machine log book, data sheet of machine parameter	1	2		
	AO33. Documents related to incoming & outgoing material	1	2		
	AO34. Meet targets & goals for production	1	2		
	AO35. Minimize defects in final product	1	2		
	AO36. Follow quality system to get better product	1	2		
	AO37. Keep work area clean & systematic	1	2		
	AO38. Comply to safety & health guidelines & rules	1	2		
	Sub total	50	100		
5. CPC/N0117: Operate the Blow moulding machine & its troubleshooting	AO1. Learn the process, their types, operations involved	2	3		
	AO2. Discuss the work requirements for the process and with the supervisor	1	3		
	AO3. Refer all components / process related documents to understand dimensions and properties of the required work output	1	3		
	AO4. Learn the process requirements in terms of tools / mould / die required, temperature of the heater according to plastics material being used, Hydraulic / pneumatic pressure / rotating speed of the screw, Parison formation, Parison Programming, Blowing time etc. as mentioned in the Work Instruction / SOP / Control Diagrams	2	3		
	AO5. Clearly understanding the do's and don'ts of the blow molding process as defined in SOPs / Work Instructions or as defined by supervisors.				
	AO6. Learn the conversion procedure and process to be adopted for completing the work order from the supervisor by referring the Work Instruction document / SOP manual				
	AO7. Set the various parameters like temperature of the heaters, temperature of chiller / cooling tower, hydraulic / air pressure, rotating speed of the screw, screw pressure, regulating current, flow of coolant / water etc. before starting the process as per the parameters mentioned in the Work Instructions / SOP	2	3		
	AO8. Ensure the raw material like plastics granules, bonding additives etc. required for production	2	3		
	AO9. Ensure that the required material with enough stock is available before starting the process	1.5	3		
	AO10. Understand the type of Mould / Die required to complete the conversion operation and ensure that the same is available for moulding operations	1.5	3		
	AO11. Ensure the availability of spare parts for continuous operation of machine	1.5	3		
	AO12. Learn the troubleshooting of the blow molding process. Knows the quality defects observed in blow molding, their causes and remedies	1.5	3		
	AO13. Set the parameters to ensure manufacturing of good products.	2	4		

	AO14. Ensure that mould / Die are cleaned properly & no foreign material is trapped in parts of mould/die.	1.5	4		
	AO15. Ensure cleaning of the other moulding machine tools, auxiliaries (if any)	1.5	4		
	AO16. Ensure cleaning of the area around the machine for any oil, grease, water etc	1.5	4		
	AO17. Reporting the problems caused by machines to superior, when not resolved by the operator.	1.5	4		
	AO18. Report defects in the moulds that one do not have the authority to repair	1.5	4		
	AO19. Report major processing defects beyond control of operator	1.5	4		
	AO20. Keeping records of machine log book, data sheet of machine parameter	1.5	3		
	AO21. Documents related to incoming & outgoing material	2	3		
	AO22. Meet targets & goals for production	2	3		
	AO23. Minimize defects in final product	1.5	3		
	AO24. Follow quality system to get better product	1.5	3		
	AO25. Keep work area clean & systematic	1.5	3		
	AO26. Comply to safety & health guidelines & rules	1.5	2		
	Sub total	30	70		
6.CPC/N0411 Maintain basic health and safety practices at the workplace, 5S.	AO1. Wear protective clothing/equipment for specific tasks and work conditions	0.5	2		
	AO2. Carry out safe working practices while dealing with hazards to ensure the safety of self and others.	0.5	2		
	AO3. Apply good housekeeping practices at all times	0.5	2		
	AO4. Use the various appropriate fire extinguishers on different types of fires correctly	0.5	2		
	AO5. Demonstrate rescue techniques applied during fire hazard, demonstrate good housekeeping in order to prevent fire hazards, demonstrate the correct use of a fire extinguisher.	0.5	2		
	AO6. Identify activities which can cause potential injury through sharp objects, burns, fall, electricity, gas leakages, radiation, poisonous fumes, chemicals, loud noise, and Identify areas in the plant which are potentially hazardous/unhygienic in nature. Conduct regular checks with support of the maintenance team on machine health to identify potential hazards due to wear and tear of machine.	0.5	2		
	AO7. Inform the concerned authorities on the potential risks identified in the processes, workplace area/ layout, materials used etc, Inform the concerned authorities about machine breakdowns, damages which can potentially harm man/ machine during operations.	0.5	2		
	AO8. Create awareness amongst others by sharing information on the identified risks.	0.5	2		
	AO9. Follow the sorting process and check that the tools, fixtures & jigs that are lying on workstations are the ones in use and un- necessary items are not cluttering the workbenches or work surfaces.	0.5	2		
	AO10. Ensure segregation of waste in hazardous/ non Hazardous waste as per the sorting work instructions	0.5	2		
	AO11. Follow the technique of waste disposal and waste storage in the proper bins as per SOP	0.5	1		
	AO12. Segregate the items which are labeled as red tag items for the process area and keep them in the correct places	0.5	1		
	AO13. Sort the tools/ equipment/ fasteners/ spare parts as per specifications/ utility into proper trays, cabinets, lockers as mentioned in the 5S guidelines/ work instructions	0.5	1		
	AO14. Ensure that areas of material storage areas are not overflowing	0.5	1		
	AO15. Properly stack the various types of boxes and containers as per the size/ utility to avoid any fall of items/ breakage and also enable easy sorting when required	0.5	1		

	AO16. Return the extra material and tools to the designated sections and make sure that no additional material/ tool is lying near the work area	0.5	1		
	AO17. Follow the floor markings/ area markings used for demarcating the various sections in the plant as per the prescribed instructions and standards.	0.5	1		
	AO18. Follow the proper labelling mechanism of instruments/ boxes/ containers and maintaining reference files/ documents with the codes and the lists	0.5	1		
	AO19. Check that the items in the respective areas have been identified as broken or damaged	0.5	1		
	AO20. Follow the given instructions and check for leveling of fluids, oils, lubricants, solvents, chemicals etc. and proper storage of the same To avoid spillage, leakage, fire etc.	0.5	1		
	AO21. Make sure that all material and tools are stored in the designated places and in the manner indicated in the 5S instructions.	0.5	1		
	Sub total	10	30		
7. CPC/N0219 Basics of MS Office / Open Source office suite software	AO1. Fill and process mandated forms for receiving, processing, or tracking data enter data from source documents (such as trial report, process sheet etc.) into MS Office / Open Source office suite software.	1	2		
	AO2. Scan source documents in accordance with specific instructions.	1	2		
	AO3. verify data entered with source documents, checks for compliance and corrects all typographical errors and missing or repeated data.	1	2		
	AO4. Maintain files of source documents or other information related to data entered.	1	2		
	AO5. Investigate and confirm data that is unclear before entering, generate reports of data entry, store completed work in designated locations and perform backup operations.	1	2		
	AO6. update database information to reflect most current source information	1	1		
	AO7. assist in the filing and storage of security and back up data files	1	2		
	AO8. respond to requests for information and access relevant files	1	1		
	Sub total	8	14		
8. DGT/VSQ/N0101 Employability Skills	AO1. Discuss the importance of Employability Skills in meeting the job requirements.	1	1		
	AO2. Use appropriate basic English sentences/phrases while speaking, Demonstrate how to communicate in a well -mannered way with others & working with others in a team.	1	1		
	AO3. Discuss the significance of using financial products and services safely and securely. Explain the importance of managing expenses, income, and savings & Explain the significance of approaching the concerned authorities in time for any exploitation as per legal rights and laws.	2	2		
	AO4. Discuss the significance of using the internet for browsing, accessing social media platforms, safely and securely.	1	1		
	AO5. Discuss the need for identifying opportunities for potential business, sources for arranging money and potential legal and financial challenges.	2	2		
	AO6. Differentiate between types of customers & Explain the significance of identifying customer needs and addressing them.	2	2		
	AO7. Create biodata, use various sources to search and apply for jobs & Discuss the significance of dressing up neatly and maintaining hygiene for an interview.	1	1		
	Sub total	10	10		
	Total	200	400		

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 are assigned to Training Assessment Wing (TAW), CIPET HO for planning of assessment
- Training Centers request TAW for Assessment and Certification of Trainees
- TAW identifies suitable assessor and nominates the assessor to the respective Training Centre
- TAW monitors the assessment process
- Training Centers maintain necessary records

2. Testing Environment:

- Check the Assessment location, date and time
- If the batch size is more than 30, then there should be 2 Assessors or 1 Assessor for 2 days.
- Check that the allotted time to the candidates to complete Theory & Practical Assessment is correct.

3. Assessment Quality Assurance levels/Framework:

- Question bank is created by the Subject Matter Experts (SME) are verified by the other SME
- Questions are mapped to the specified assessment criteria
- Assessor must be ToA certified & trainer must be ToT Certified

4. Types of evidence or evidence-gathering protocol:

- Time-stamped & geo tagged reporting of the assessor from assessment location
- Centre photographs with signboards and scheme specific branding

5. Method of verification or validation:

- Surprise visit to the assessment location

6. Method for assessment documentation, archiving, and access

- Hard copies of the documents are stored

On the Job:

1. Each module which covers the job profile will be assessed separately.
2. The candidate must score 60% 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
4. Assessment of each Module will ensure that the candidate is able to:
 - Effective engagement with the customers
 - Understand the working of various tools and equipment

NSQC Approved

Annexure: Acronym and Glossary Acronym

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

Glossary

Term	Description
National Occupational Standards (NOS)	NOS defines 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.
Qualification	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
Qualification File	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.
Sector	A grouping of professional activities on the basis of their main economic function, product, service or technology.
Long Term Training	Long-term skilling means any vocational training program undertaken for a year and above. https://ncvet.gov.in/sites/default/files/NCVET.pdf