



QUALIFICATION FILE

Testing and Quality Control Specialist - Plastics Materials & Products

☒ 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: 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	Testing and Quality Control Specialist - Plastics Materials & Products																	
2.	Sector/s	Chemicals & Petrochemicals (CPC)																	
3.	Type of Qualification: ☐ New ☒ Revised ☐ Has Electives/Options ☐ OEM	NQR Code & version of existing/previous qualification: <i>(change to previous, once approved)</i> 2021/CP/CIPET/04636		Qualification Name of existing/previous version: Testing & QC for Plastics Materials & Products - Supervisor															
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-05-CP-04128-2025-V2-CIPET	6. NCrF/NSQF Level: Level 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	Testing and Quality Control Specialist - Plastics Materials & Products ensures quality control across raw materials, in-process, and finished plastic products. The role involves conducting tests, maintaining compliance with BIS, ASTM, ISO standards, managing QC teams, and implementing process improvements to reduce defects. Testing and QC specialists also oversee documentation, audits, and workplace safety protocols.																	
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>UG Diploma or equivalent</td> <td>No Experience required</td> </tr> <tr> <td>2.</td> <td>UG Certificate or equivalent</td> <td>1.5 years relevant experience</td> </tr> <tr> <td>3.</td> <td>12th or equivalent</td> <td>3 years relevant experience</td> </tr> <tr> <td>4.</td> <td>Previous relevant NSQF Level 4.5</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.	UG Diploma or equivalent	No Experience required	2.	UG Certificate or equivalent	1.5 years relevant experience	3.	12 th or equivalent	3 years relevant experience	4.	Previous relevant NSQF Level 4.5	1.5 years relevant experience
S. No.	Academic/Skill Qualification (with Specialization – if applicable)	Required Experience (with Specialization – if applicable)																	
1.	UG Diploma or equivalent	No Experience required																	
2.	UG Certificate or equivalent	1.5 years relevant experience																	
3.	12 th or equivalent	3 years relevant experience																	
4.	Previous relevant NSQF Level 4.5	1.5 years relevant experience																	
10.	Credits Assigned to this Qualification, Subject to Assessment <i>(as per National Credit Framework (NCrF))</i>	19	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>)	☒ Offline ☐ Online ☐ Blended <table border="1" data-bbox="936 167 2036 343"> <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>180</td> <td>330</td> <td>60</td> <td>-</td> <td>570</td> </tr> <tr> <td>Online</td> <td>-</td> <td>-</td> <td>-</td> <td>-</td> <td>-</td> </tr> </tbody> </table> <i>(Refer Blended Learning Annexure for details)</i>				Training Delivery Modes	Theory (Hours)	Practical (Hours)	OJT Mandatory (Hours)	OJT Recommended (Hours)	Total (Hours)	Classroom (offline)	180	330	60	-	570	Online	-	-	-	-	-
Training Delivery Modes	Theory (Hours)	Practical (Hours)	OJT Mandatory (Hours)	OJT Recommended (Hours)	Total (Hours)																		
Classroom (offline)	180	330	60	-	570																		
Online	-	-	-	-	-																		
14.	Aligned to NCO/ISCO Code/s (if no code is available mention the same)	NCO-2015/7543.3003																					
15.	Progression path after attaining the qualification (<i>Please show Professional and Academic progression</i>)	Quality Control & Quality Assurance Manager in Plastics and allied Industry																					
16.	Other Indian languages in which the Qualification & Model Curriculum are being submitted																						
17.	Is similar Qualification(s) available on NQR-if yes, justification for this qualification	☐ Yes ☒ No URLs of similar Qualifications:																					
18.	Is the Job Role Amenable to Persons with Disability	☐ Yes ☒ 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>)	☐ Yes ☒ No																					
21.	Is Qualification Suitable to be Offered in Schools/Colleges	Schools ☐ Yes ☒ No Colleges ☒ Yes ☐ 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		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:

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)										Weightage (%) (if applicable)
						Th.	Pr.	OJT-Man.	OJT-Rec.	Total	Th.	Pr.	Proj.	Viva	Total	
1.	Introduction to Plastics and Quality Control, Standards & Specifications and Basic Testing Principles	CPC/N8109 & V2.0	Core	5	2	20	40	-	-	60	20	30	-	-	50	-
2.	Testing of Physical Properties of Plastics Raw Materials & Products	CPC/N0116 V2.0	Core	5	3	20	70	-	-	90	50	100	-	-	150	-
3.	Testing and Evaluation of Mechanical, Thermal, Chemical, Electrical, Optical, Properties of Plastics	CPC/N8110 V2.0	Core	5	4	30	90	-	-	120	50	110	-	-	160	
4.	Product Testing	CPC/N1109 V2.0	Core	5	3	20	70	-	-	90	40	100	-	-	140	
5.	Workplace Safety, Basic Health & Documentation	CPC/N1110 V2.0	Core	5	1	10	20	-	-	30	10	30	-	-	40	
6.	Basic knowledge of communication/ Soft Skills	CPC/ N 0418 V2.0	Non-Core	5	1	10	20	-	-	30	10	10	-	-	20	
7.	Quality Management System	CPC/N 0427 V2.0	Core	5	1	10	20	-	-	30	10	10	-	-	20	
8.	Employability Skills	DGT/VSQ/N0101 V1.0	Non-Core	5	2	60	-	-	-	60	10	10	-	-	20	-
9.	On the Job Training (OJT)	N/A	Core	5	2	-	-	60	-	60	-	-				
Duration (in Hours) / Total Marks					19	180	330	60	-	570	200	400	-	-	600	-

Elective NOS/s:

S. No	NOS/Module Name	NOS/Module Code & Version (if applicable)	Core/Non-Core	NCrF/NS QF 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/NS QF 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 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) <i>(as per NCVET guidelines)</i>	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) <i>(as per NCVET guidelines)</i>	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	☒ Yes ☐ No <i>(If "Yes", details to be provided in Annexure)</i>
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) <i>(as per NCVET guidelines)</i>	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) <i>(as per NCVET guidelines)</i>	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) <i>(as per NCVET guidelines)</i>	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 <i>(Specify the assessment mode)</i>	Physical Assessment
5.	Tools and Equipment Required for Assessment	☒ Same as for training ☐ Yes ☐ No <i>(details to be provided in Annexure-if it is different for Assessment)</i>

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 2years) (Yes/No): NO
3.	Government /Industry initiatives/ requirement (Yes/No): YES
4.	Number of Industry validation provided: 06
5.	Estimated nos. of persons to be trained and employed: 500 Candidates per year
6.	Evidence of Concurrence/Consultation with Line Ministry/State Departments: YES If "No", why:

Section 6: Annexure & Supporting Documents Check List

Specify Annexure Name / Supporting document file name

1.	Annexure: NCrf/NSQF level justification based on NCrf level/NSQF descriptors (Mandatory)	- Entry Qualification for this course is Completed 3rd year of 3-year/ 4-years UG Or 12th Grade Pass with 2 years of any combination of NTC/NAC/CITS or equivalent with 1.5 years relevant experience Or Completed 3-year diploma(after 10th) with 3 years relevant experience Or 12th Grade pass with 4.5 years relevant experience Or Previous relevant Qualification of NSQF Level 4.5 with 1.5 years relevant experience - After successful completion of training, Trainee / Candidate is eligible for testing and QC specialist in Plastics Testing / Quality Control Department. - Job description: Testing and QC specialist ensures quality control across raw materials, in-process, and finished plastic products. The role involves conducting tests, maintaining compliance with BIS, ASTM, ISO standards, managing QC teams, and implementing process improvements to reduce defects. Testing and QC specialists also oversee documentation, audits, and workplace safety protocols.
2.	Annexure: List of tools and equipment relevant for qualification (Mandatory, except in case of online course)	Equipment Required: Class Room equipments: LCD Projector/Screen, Computer, charts, Black / White board & Duster. Measuring equipments: Steel Ruler, Micrometer, Vernier Caliper, Radius gauge, Feeler gage, Steel measuring tape, Weighing Balance (1 No.) Hand Tools: Hammer, screw driver set with Multiple heads, Allen key hexagonal , File triangular, Hacksaw, adjustable, Spanner set double side, Adjustable spanner Personal Protective equipments: Safety Goggles, Rubber Gloves, Asbestos gloves, Fire Extinguisher, Apron, Helmet, First Aid Box with Medicines. Plastics raw material: PP, HDPE, etc., for basic practical training on machines of injection, Blow and Extrusion grade.

		Testing Equipment: Bunsen Burner, chemicals for identification of Plastics. • Specimen Preparation Equipment viz. Compression moulding, Injection moulding, Milling apparatus, contour cutter etc. • Conditioning Chamber • Melt Flow Tester • Density Tester • Muffle Furnace • Hot Air Oven • Weighing Balance • Testing Equipment for mechanical properties viz. Universal Testing Machine, Izod / Charpy Impact Tester, Hardness Tester (Durometer, Rockwell, Hardness Testers) • Thermal Properties Apparatus viz. HDT / VSP Tester, DSC Tester. • Electrical Properties Apparatus viz. Dielectric Strength Tester, Surface / Volume resistivity Tester etc. • Optical Properties Apparatus viz. Haze meter, opacity tester etc. • Pipe Testing, Films & sheets, woven sacks tester. • Hydrostatic Pressure tester, Drop impact tester, Dart impact tester, Carbon Black content tester, Carbon black dispersion tester, Deep freezer, Oil bath (reversion) etc
3.	Annexure: Detailed Assessment Criteria (Mandatory)	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 combine. 3. Each Learning outcome will be assessed both for theoretical knowledge and practical which is being proportionately demonstrated in the table below. 4. The assessment for the theory part will be based on knowledge bank of questions created by CIPET which will contain multiple choice theory questions and 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 Outcome's. 6. In case of successfully passing only certain number of Learning Outcome's, the trainee is eligible to take Subsequent assessment on the balance Learning Outcome's to pass the Qualification Document.

4.	Annexure: Assessment Strategy(Mandatory)	Assessment strategy: - Assessment criteria for Qualification Document have been developed. Each Learning outcome have 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 bank developed to assess the theoretical and practical knowledge. To ensure the quality, each trainees get the unique set of question. - Student has 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 trainee 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 (Mandatory, in case selected Mode of delivery is "Blended Learning")	-
6.	Annexure: Multiple Entry-Exit Details (Mandatory, in case qualification has multiple Entry-Exit)	-
7.	Annexure: Acronym and Glossary (Optional)	-
8.	Supporting Document: Model Curriculum (Mandatory – Public view)	Enclosed as Annexure-I
9.	Supporting Document: Career Progression (Mandatory - Public view)	Enclosed as Annexure-II
10.	Supporting Document: Occupational Map (Mandatory)	Enclosed as Annexure-III
11.	Supporting Document: Assessment SOP (Mandatory)	Enclosed as Annexure-IV
12.	Any other document you wish to submit: Industry validation	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	A Testing and Quality Control Specialist - Plastics Materials & Products is responsible for overseeing quality control operations, ensuring compliance with industry standards, maintaining documentation, and supervising testing procedures. The must ensure adherence to safety protocols, process efficiency, and defect prevention in plastics materials and product testing- Key Responsibilities: - Ensuring Quality & Compliance: - Understand and implement Standard Operating Procedures (SOPs) and Work Instructions related to plastics testing and QC. - Verify the availability of testing equipment, calibrated instruments, and consumables before conducting tests. - Ensure compliance with BIS, ASTM, ISO, UL, and other relevant standards for plastics materials and products. - Conduct internal quality audits and maintain proper documentation of test results. - Supervising Testing Procedures: - Oversee raw material and finished product testing, ensuring accuracy in measurements and consistency in quality. - Ensure proper specimen preparation and conditioning before conducting tests. - Monitor testing operations for mechanical, thermal, optical properties of plastics. - Identify and rectify testing deviations or non-conformities in accordance with quality control protocols. - Safety & Workplace Management: - Ensure proper handling of personal protective equipment (PPE) like gloves, goggles, and lab coats for laboratory personnel. - Maintain a safe and organized work environment, free from hazards such as chemical spills or combustible materials. - Ensure proper handling, storage, and disposal of plastic testing samples and chemicals to minimize environmental impact. - Process Improvement & Troubleshooting: - Analyze test data and trends to identify process gaps and recommend corrective actions. - Collaborate with production teams to reduce defects and improve manufacturing processes.	The Testing and Quality Control Specialist - Plastics Materials & Products role aligns with the National Credit Framework (NCrF) and National Skills Qualifications Framework (NSQF) based on various descriptors such as process, professional knowledge, professional skills, core skills, and responsibility. Below is a detailed elaboration of how this job role relates to these NSQF descriptors: Parts and its functions etc. - He / She shall involve supervising raw material and product testing across various properties. - He / She shall engage in regular audits, data analysis, and process improvements to optimize QC operations. - He / She shall understanding of safety guidelines, environmental considerations, and regulatory compliance in testing labs. - He / She shall ensure product compliance with regulatory standards and customer specifications. - Shall takes responsibility for maintaining a safe, efficient, and quality-driven testing environment. - Shall supervise testing personnel and laboratory operations, ensuring all tests are performed accurately. - Shall drive continuous improvement initiatives in plastics testing and manufacturing to enhance product quality and reduce defects. - Shall accountable for audit readiness, compliance documentation, and certification approvals. - Shall have ability to analyze test results, interpret deviations, and implement corrective actions. - Shall have ability to calibrate, operate, and maintain testing equipment for accurate and reliable results. - Shall have troubleshooting and optimizing plastic material formulations and processing conditions based	5

	○ Utilize Statistical Process Control (SPC) and Quality Management Systems (QMS) for continuous process optimization. ● Team Management & Training: ○ Guide and train Quality Control Technicians on proper testing procedures and documentation. ○ Conduct training sessions on quality standards, equipment handling, and compliance requirements. ○ Foster a culture of continuous improvement and adherence to best practices in plastics testing and QC.	on test findings.	
Professional and Technical Skills/ Expertise/ Professional Knowledge	The Testing and Quality Control Specialist - Plastics Materials & Products needs to have a comprehensive understanding of the following: ✓ Operation and Procedures for Measuring Physical Dimensions ● Proficiency in using advanced measuring instruments and gauges for precise dimension verification. ● Ensuring calibration and accuracy of measurement tools as per industry standards. ✓ Interpreting Raw Material Technical Data Sheets & Documentation ● Analyzing technical specifications of raw materials and ensuring compliance with supplier specifications. ● Maintaining accurate records of material test results and verifying conformity with technical data sheets. ✓ Expertise in Testing Equipment & Basic Tools ● In-depth knowledge of operation, maintenance, and troubleshooting of laboratory testing equipment. ● Ensuring proper execution of physical, mechanical, thermal tests on raw materials and finished products. ✓ Thorough Knowledge of Industry Standards & SOPs ● Strong understanding of IS, ASTM, ISO, and in-house validated standards for plastics testing. ● Ensuring all tests are performed as per relevant Standard Operating Procedures (SOPs) and compliance guidelines. ● Supervising and guiding the team to maintain accuracy and consistency in testing procedures.	Testing and Quality Control Specialist - Plastics Materials & Products personnel should have a thorough understanding of testing principles, quality control procedures, and industry standards related to plastics materials and products. The Testing and QC specialist must demonstrate factual and procedural knowledge of plastics testing, compliance regulations, and documentation practices, which justifies the pegging of Level 5 in the qualification framework.	5
Employment Readiness & Entrepreneurship Skills & Mind-set/Professional Skill	The user/individual on the job as a specialist needs to know and understand: ● Types and Grades of Plastics used in the manufacturing and testing processes, along with their properties and applications. ● Various Testing Equipment & Machinery used for evaluating plastic materials and products, including their operation, maintenance, and calibration. ● Advanced Knowledge of Physical & Chemical Properties such as Density, Melt Flow Index (MFI), Filler Content, Ash Content, and Moisture Content. Must be	● Should have a thorough understanding of general and advanced testing procedures and be able to supervise the operation of testing equipment for evaluating physical, mechanical, thermal, optical, and electrical properties of plastic materials and products. ● Shall be responsible for ensuring proper housekeeping and safety measures in the testing laboratory and	5

	capable of supervising and verifying test procedures as per company standards. • Data Recording & Validation: Ensure accurate documentation of test results, maintain quality records, and validate reports with superior authorities for compliance and reliability. • Safety & Hazard Management: Identify potential hazards in the Testing & Quality Control Lab and enforce necessary safety protocols for personnel and equipment. • Test Specimen Preparation: Guide the preparation of accurate and defect-free specimens to achieve reliable and repeatable test results. • Laboratory Maintenance & Environmental Conditions: Monitor and maintain controlled laboratory conditions, including specimen pre-conditioning and recording environmental parameters before testing. • Industry Standards & Compliance: Must have in-depth knowledge of BIS, ASTM, ISO, and other regulatory standards, ensuring product testing aligns with the latest amendments and guidelines. • Equipment Maintenance & Calibration: Supervise the preventive maintenance, calibration, and log sheet management of laboratory instruments and testing equipment. • Quality Reporting & Communication: Ensure timely reporting of test results to higher authorities, providing insights for corrective actions and continuous quality improvements. • Work Independently with Minimal Supervision: Capable of managing a testing lab, ensuring smooth workflow, and addressing any deviations from standard procedures. • Timely Execution of Quality Checks: Ensure all assigned testing activities are completed within set deadlines while maintaining high accuracy and compliance. The user/individual on the job as a Testing and QC specialist needs to know and understand how to: • Apply critical thinking and analytical skills to monitor, analyze, and improve testing procedures. • Use logical reasoning to identify and resolve complex quality-related issues. • Implement problem-solving strategies to detect, assess, and mitigate potential risks in testing and QC processes. • Ensure adherence to industry standards while making data-driven decisions for quality control.	quality control area. • Must be able to interpret and apply industry standards (BIS, ASTM, ISO, etc.), ensuring that testing procedures are conducted as per prescribed methods and reports are accurately documented. • Shall monitor and maintain environmental/test conditions, ensuring compliance with standard testing requirements. • Should have a working knowledge of Quality Management Systems (QMS), assist in audits, and ensure that all required documentation is properly maintained and updated. • Should supervise and guide testing personnel, ensuring adherence to standard operating procedures (SOPs) and validated methods for consistency and accuracy in test results. • Must be capable of conducting root cause analysis for defects and deviations, providing recommendations for process improvements. Testing and Quality Control Specialist - Plastics Materials & Products demonstrates practical expertise, applies critical thinking, and ensures compliance with industry standards while guiding testing personnel. The role involves supervision, process validation, and documentation, justifying its placement at Level 5.	
Broad Learning Outcomes/Core Skill	The user/individual on the job needs to know and understand how to: • Evaluate and interpret Technical Data Sheets (TDS) of raw materials and ensure proper receipt, verification, and storage of raw materials as per specifications	The specialist should be able to read, understand, and interpret warnings, instructions, test procedures, and relevant technical documents such as standards, material safety data sheets (MSDS), and test reports with a high level	5

	and quality requirements. • Maintain accurate records of daily test results, analyze trends, and report findings to higher authorities, ensuring proper documentation as per Quality Management System (QMS) guidelines. • Ensure adherence to safety protocols by thoroughly reading and understanding safety instructions, symbols, and hazard warnings associated with laboratory equipment and testing procedures. The user/individual on the job needs to know and understand how to: • Coordinate effectively with co-workers by discussing task lists, test schedules, and workload distribution to optimize testing efficiency and ensure smooth operations. • Communicate with production teams and internal stakeholders to understand challenges in quality control, identify potential issues, and provide necessary feedback for corrective actions. • Use clear and professional communication, avoiding unnecessary jargon or technical terms when interacting with operators, subordinates, and other team members, unless required for specific instructions or procedures.	of clarity. The testing and QC specialist must also have the ability to verify product labels, specifications, and compliance markings to ensure adherence to quality standards. The Testing and QC specialist should possess strong analytical and arithmetic skills, including the ability to calculate test sample weights, assess measurement tolerances, and analyze statistical quality control (SQC) data. The Testing and QC specialist must have effective written and verbal communication skills, enabling them to document test results, prepare reports, and communicate findings to management and production teams clearly. Their ability to understand the work environment, enforce quality standards, and coordinate with teams justifies the pegging of Level 5.	
Responsibility	The Testing and QC specialist is primarily responsible for overseeing the quality control processes, ensuring compliance with testing standards and procedures, and guiding the testing team. They must verify and validate test results, coordinate with production and quality assurance departments, and take corrective actions when required. The Testing and QC specialist should have a strong understanding of test standards, procedures, and industry regulations to ensure the accuracy and reliability of test outcomes. They are also responsible for training and mentoring junior technicians, ensuring proper documentation, and maintaining records as per the Quality Management System (QMS). Additionally, the Testing and QC specialist must demonstrate leadership qualities, problem-solving skills, and a commitment to continuous improvement. Their role is crucial in maintaining plant-wide quality standards, ensuring smooth operations, and fostering a team-oriented work environment to achieve production and quality goals.	The Testing and QC specialist is primarily responsible for overseeing the operation of testing equipment, validating test results, and ensuring compliance with Standard Operating Procedures (SOPs) and industry standards. They must monitor laboratory conditions, maintain proper documentation, and ensure adherence to Quality Management Systems (QMS). In addition, the Testing and QC specialist is accountable for guiding and training technicians, ensuring the accuracy and reliability of test results, and taking necessary corrective actions. Their role involves coordinating with production, quality assurance, and compliance teams to ensure smooth operations. With a higher level of responsibility in decision-making, process validation, and reporting, the Testing and QC specialist plays a critical role in maintaining quality standards in plastic materials and product testing, which justifies the pegging of Level 5.	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 equipments	Steel Ruler, Micrometer, Vernier Caliper, Measuring tape, Weighing Balance (1 No.), Thermometers, Chemical Glassware, Burettes, Pippettes, Measuring Jars, Gauges etc	As per requirement
2.	Hand Tools	Hammer, screw driver set with Multiple heads, Allen key hexagonal, File triangular, Hacksaw, adjustable, Spanner set double side, Adjustable spanners etc	As per requirement
3.	PPEs	Safety Goggles, Rubber Gloves, Asbestos gloves, Fire Extinguisher, Apron, Helmet, First Aid Box with Medicines	As per requirement
4.	Testing Equipment	All the required equipment for evaluating the various properties as per Material / Product Standards/ Validated SOPs. Testing Equipment: Bunsen Burner, chemicals for identification of Plastics. • Specimen Preparation Equipment viz. Compression moulding, Injection moulding, Milling apparatus, contour cutter etc. • Conditioning Chamber • Melt Flow Tester • Density Tester • Muffle Furnace • Hot Air Oven • Weighing Balance • Testing Equipment for mechanical properties viz. Universal Testing Machine, Izod / Charpy Impact Tester, Hardness Tester (Durometer, Rockwell, Hardness Testers) • Thermal Properties Apparatus viz. HDT / VSP Tester, DSC Tester. • Electrical Properties Apparatus viz. Dielectric Strength Tester, Surface / Volume resistivity Tester etc. • Optical Properties Apparatus viz. Haze meter, opacity tester etc. • Pipe Testing, Films & sheets, woven sacks tester. Hydrostatic Pressure tester, Drop impact tester, Dart impact tester, Carbon Black content tester, Carbon black dispersion tester, Deep freezer, Oil bath (reversion) etc	As per requirement
5.	Miscellaneous	Specimen Preparation apparatus, Conditioning Equipment, Reference Materials, ISO/IS/ASTM Standards etc	As per requirement

Classroom Aids

The aids required to conduct sessions in the classroom are:

1. LCD Projector/Screen,
2. Computer
3. Charts
4. White board & Marker pen

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.	Jagadambe Pipes Industry Pvt. Ltd.,	Mr. Vijay Sharma	Director	Plot No. 73, Badiyakheri MPIDC Industrial Area, Sehore, Madhya Pradesh	7830702105	vijay_sharma040419@yahoo.in	-
2.	M K Plast Pvt. Ltd.,	Mr. Niranjana Nayak	DGM (Production)	Ramdasapur Industrial Estate, Baranga, Cuttack – 754 006, Odisha	8456857716	niranjana.mkplast@gmail.com	-
3.	Magnum Fibers Pvt. Ltd.,	Mr. Biraja Acharya	Dy. General Manager	Plot No. 132A, Zone-A, Sector-A, Mancheswar Industrial Estate, Bhubaneswar – 751 010, Odisha	9040011139	birajaacharya@magnum-india.com	-
4.	Metroplast Industries	Mr. Atanu Kumar Das	Q. C. Manager	Kuruda, Near Kuruda Fly Over, NH-5, Balasore – 756 056, Odisha	8847894040	metro_plast@yahoo.com	-
5.	Biosterile Corporation	Mr. Vijay Sharma	Partner	Khasra No. 1051/1 & 1051/2 Central Hope Town, Selaqui Dehradun, Uttarakhand	9997144040	Bio_acct1051@yahoo.com	-
6.	Vajra Plastics	Mr. Rejani A T	HR Manager	Industrial Development Area, Erumathala PO, Aluva, Ernakulam – 683 112	9142213340	hr@aizar.in	-

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	500	400	50	40	-	-
2025-26	600	480	60	48	-	-
2026-27	700	560	70	57	-	-

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	43	43	43	37	8	8	8	7	-	-	-	-
1.0	2022-23	112	112	112	92	46	46	46	38	-	-	-	-
1.0	2023-24	25	25	25	21	4	4	4	3	-	-	-	-

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

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

Annexure: Blended Learning

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	Audio / Video & Visual Modes of Theoretical Training	
2	☐ Imparting Soft Skills, Life Skills, and Employability Skills / Mentorship to Learners	Computer Systems	
3	☐ Showing Practical Demonstrations to the learners	Adequate Measuring Instruments, Hand / Fitting Tools, Plastics Processing Machinery, Testing Equipment, Standards, SOPs etc	
4	☐ Imparting Practical Hands-on Skills/ Lab Work/ workshop/ shop floor training		
5	☐ Tutorials/ Assignments/ Drill/ Practice	Audio / Video & Visual Modes Exclusive faculty for Practice and Motivation.	
6	☐ Proctored Monitoring/ Assessment/ Evaluation/ Examinations	Inhouse Assessment Wing	
7	☐ On the Job Training (OJT)/ Project Work Internship/ Apprenticeship Training	NA	

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
CPC/N8106: Introduction to Plastics and Quality Control, Standards & Specifications and Basic Testing Principles	AO1. Sampling & Labelling – Draw, label, and number samples as per SOP while ensuring compliance with standard guidelines.	0.5	1	-	-
	AO2. Testing & Equipment Management – Select, calibrate, and validate testing equipment; conduct product testing as per the latest standards.	0.5	1	-	-
	AO3. Quality Control & Compliance – Perform inspections, verify product parameters, implement statistical quality control (SQC), and ensure adherence to GMP and industry standards.	0.5	1	-	-
	AO4. Documentation & Reporting – Maintain quality records, prepare accurate test reports, compare vendor-supplied products with quality standards, and communicate findings for corrective actions.	0.5	1	-	-
	AO5. Safety & Environmental Compliance – Follow safety measures, handle hazardous materials responsibly, comply with health and environmental regulations, and ensure proper waste disposal.	0.5	1	-	-
	AO6 Use appropriate measuring instruments and tools	0.5	1	-	-
	AO7. Identify non-conformities in product quality	0.5	1	-	-
	AO8. Interpret and analyze results from quality checks	0.5	1	-	-
	AO9. Record all results for traceability and audits	0.5	1	-	-
	A10. Follow standard procedures where cause of defect is unknown	0.5	1	-	-
	A11. Understand the importance of basic testing principles in quality control.	0.5	1	-	-
	A12. Identify different types of testing methods used for plastics materials and products.	0.5	1	-	-
	A13. Explain the significance of calibration, environmental conditions, and specimen preparation in testing.	1	2	-	-
	A14. Select appropriate testing equipment based on material properties and test requirements.	1	2	-	-
	A15. Conduct calibration, verification, and validation of testing instruments as per SOP.	1	2	-	-
	A16. Prepare test specimens according to standard guidelines and industry best practices.	1	2	-	-
	A17. Follow proper conditioning procedures to ensure accurate test results.	1	1	-	-
	A18. Perform basic mechanical, thermal, optical tests for plastic materials.	1	1	-	-
	A19. Interpret test results and identify deviations from specified standards..	1	1	-	-
	AO20. Maintain proper documentation of testing procedures, results, and observations.	1	1	-	-
	AO21. Understand and apply statistical quality control (SQC) techniques in testing.	1	1	-	-
	AO22. Ensure compliance with BIS, ASTM, ISO, and other relevant industry standards.	1	1	-	-
	AO23. Follow laboratory safety protocols while handling equipment and chemicals.	1	1	-	-
	AO24. Identify common testing errors and take corrective actions to improve accuracy.	1	1	-	-
	AO25. Communicate test findings clearly to testing and QC specialists and concerned teams for decision-making.	2	2	-	-
Sub Total		20	30	-	-

CPC/N8106: Testing of Physical Properties of Plastics Raw Materials & Products	AO1. Identify different types of raw materials used in plastic manufacturing and their properties.	4	8	-	-
	AO2. Perform sampling and labelling of raw materials as per standard operating procedures (SOP).	4	8	-	-
	AO3. Conduct basic physical and chemical tests to evaluate raw material quality.	4	8	-	-
	AO4. Perform moisture content analysis to assess the impact on material performance.	4	8	-	-
	AO5. Test melt flow index (MFI) to determine the processability of plastic raw materials.	6	8	-	-
	AO6. Evaluate Density / Specific gravity of raw materials to ensure consistency.	6	12	-	-
	AO7. Conduct Filler Content	6	12	-	-
	AO8. Verify the presence of impurities or contamination in raw materials through appropriate testing methods.	6	12	-	-
	AO9. Compare test results with standard specifications to determine material suitability.	5	12	-	-
	AO10. Maintain proper documentation and records of raw material testing for traceability and compliance.	5	12	-	-
	Sub Total	50	100	-	-
CPC/N8106: Testing and Evaluation of Mechanical, Thermal, Chemical, Electrical, Optical properties of Plastics	AO1. Identify key mechanical and physical properties of plastics materials.	2	4	-	-
	AO2. Understand the importance of testing mechanical and physical properties in quality control.	2	4	-	-
	AO3. Perform tensile, compressive, and flexural strength tests on plastic materials.	2	4	-	-
	AO4. Conduct impact resistance tests such as Izod and Charpy to assess toughness.	2	4	-	-
	AO5. Measure hardness using appropriate testing methods like Rockwell, Shore, or Brinell.	2	4	-	-
	AO6. Testing with CRMs and comparison of results	2	4	-	-
	AO7. Perform Conditioning as required	2	4	-	-
	AO8. Analyze elongation and modulus of elasticity to determine material flexibility and stiffness.	2	5	-	-
	AO9. Interpret mechanical and physical test results to identify material suitability for applications.	2	5	-	-
	AO10. Maintain accurate records of test results and ensure compliance with relevant industry standards.	2	5	-	-
	AO11. Understand the fundamental principles of chemical and electrical testing of plastics.	2	5	-	-
	AO12. Identify different chemical resistance tests for plastics, including solvent and environmental stress cracking resistance.	2	5	-	-
	AO13. Conduct tests to determine the effect of acids, bases, and solvents on plastic materials.	2	5	-	-
	AO14. Perform electrical insulation resistance and dielectric strength tests for plastic products.	2	5	-	-
	AO15. Understand the significance of volume and surface resistivity in plastics testing.	2	5	-	-
	AO16. Follow proper procedures for flammability and ignition resistance testing of plastics.	2	5	-	-
	AO17. Interpret test results for chemical degradation and electrical performance of plastic materials.	2	5	-	-
	AO18. Ensure compliance with relevant industry standards such as ASTM, ISO, BIS, and UL for chemical and electrical testing.	2	4	-	-
	AO19. Maintain accurate records of test procedures, results, and observations in compliance with documentation standards.	2	4	-	-
	AO20. Understand the importance of optical properties in evaluating plastic materials.	2	4	-	-
	AO21. Select appropriate testing methods for measuring optical properties, such as ASTM and ISO standards.	2	4	-	-
	AO22. Conduct tests for transparency and haze using a haze meter or spectrophotometer.	2	4	-	-

	AO23. Interpret optical test results and compare them with industry specifications.	2	4	-	-
	AO24. Conduct tests to determine the melt flow index (MFI) of plastic materials.	2	4	-	-
	AO25. Maintain records and documentation of test procedures, observations, and results for quality control.	2	4	-	-
	Sub Total	50	110	-	-
CPC/N8106: Product Testing	AO1. Understand the importance of compliance with national and international quality standards (IS, ASTM, ISO) in plastics testing.	2	7	-	-
	AO2. Conduct product testing procedures accurately to ensure adherence to specified quality parameters.	2	7	-	-
	AO3. Implement statistical quality control (SQC) techniques to monitor and improve production processes.	2	7	-	-
	AO4. Identify deviations in product quality through systematic testing and recommend corrective actions.	2	7	-	-
	AO5. Maintain proper documentation of test results, non-conformities, and corrective measures for audit and compliance.	2	7	-	-
	AO6. Ensure calibration, verification, and validation of testing equipment to maintain accuracy and reliability.	2	7	-	-
	AO7. Perform process audits to identify inefficiencies and implement improvements in manufacturing and quality control.	2	7	-	-
	AO8. Follow Good Manufacturing Practices (GMP) and workplace safety protocols while conducting quality tests.	2	7	-	-
	AO9. Analyze test data to enhance product durability, performance, and compliance with regulatory norms.	2	7	-	-
	AO10. Communicate test findings effectively with production teams to ensure continuous quality improvement and minimize defects.	2	7	-	-
	AO11. Perform appropriate Product Testing of UPVC Pipes as per IS 4985 / IS 12818 / IS 13592.	4	6	-	-
	AO12. Perform appropriate Product Testing of PE Pipes as per IS 4984 / IS 14333.	4	6	-	-
	AO13. Perform appropriate Product Testing of HDPE / PP Woven sacks as per IS 14887/ IS 14968 etc.	4	6	-	-
	AO14. Perform appropriate Product Testing of Films / Sheets as per IS 2508 etc	4	6	-	-
	AO15. Checking of Latest Amendments / Upgradation of relevant Standard before testing of any Parameter	4	6	-	-
	Sub Total	40	100	-	-
CPC/N8106: Workplace Safety, Basic Health & Documentation	AO1. Maintain accurate records of testing procedures, observations, and results as per SOP.	2	6	-	-
	AO2. Ensure proper labeling, numbering, and storage of test samples and quality control documents.	2	6	-	-
	AO3. Follow workplace safety guidelines while handling testing equipment and hazardous materials.	2	6	-	-
	AO4. Comply with health, safety, and environmental regulations, including proper waste disposal practices.	2	6	-	-
	AO5. Communicate safety concerns and quality documentation findings to relevant personnel for corrective actions.	2	6	-	-
	Sub Total	10	30	-	-
CPC/N8106: Basic knowledge of communication/ Soft Skills	AO1. Accurately receive information and instructions from the testing and QC specialist/operator and fellow workers, getting clarification where required.	1	1	-	-

	AO2. Accurately pass on information to authorized persons who require it and within agreed timescale and confirm its receipt.	1	1	-	-
	AO3. Display helpful behavior by assisting others in performing tasks in a positive manner, where required and possible.	1	1	-	-
	AO4. Basic Knowledge of consult with and assist others to maximize effectiveness and efficiency in carrying out tasks.	1	1	-	-
	AO5. Basic Study of Fundamental of Computers.	1	1	-	-
	AO6. Components of Computer: - Hardware and the software.	1	1	-	-
	AO7. Display active listening skills while interacting with others at work.	1	1	-	-
	AO8. Use appropriate tone, pitch and language to convey politeness, assertiveness, care and professionalism	1	1	-	-
	AO9. Demonstrate responsible and disciplined behaviors at the workplace	1	1	-	-
	AO10. Escalate grievances and problems to appropriate authority as per procedure to resolve them and avoid conflict	1	1	-	-
	Sub total	10	10	-	-
CPC/N8106: Quality Management Systems (QMS)	AO1. Understand the fundamental principles and objectives of Quality Management Systems (QMS) in the plastics industry.	2	2	-	-
	AO2. Identify key components of QMS, including documentation, standard operating procedures (SOPs), and compliance with industry standards.	2	2	-	-
	AO3. Implement quality control measures, audits, and corrective actions to ensure continuous improvement in testing and production.	2	2	-	-
	AO4. Maintain proper record-keeping, traceability, and reporting as per QMS guidelines and regulatory requirements.	2	2	-	-
	AO5. Ensure adherence to ISO 9001 and other relevant quality standards while promoting a culture of quality and process efficiency.	2	2	-	-
	Total	10	10	-	-
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.	1	1	-	-
	AO4. Discuss the significance of using the internet for browsing, accessing social media platforms, safely and securely.	2	2	-	-
	AO5. Discuss the need for identifying opportunities for potential business, sources for arranging money and potential legal and financial challenges.	1	1	-	-
	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.	2	2	-	-
	Total	10	10	-	-
	Grand 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 02 Assessors in a day (or) 01 assessor in 2 days
- Check that the allotted time to the candidates to complete the Theory & Practical Assessment

3. Assessment Quality Assurance levels/Framework:

- Question bank / Question Paper is prepared by the Subject Matter Experts (SME) / Assessor
- Questions are mapped to the specified assessment criteria
- Certified Assessor & Trainer will be engaged in the process

4. Types of evidence or evidence-gathering protocol:

- Date / Time recorded for the reporting of the assessor from assessment location
- Assessment batch - Group Photo of Trainees along with Assessor

5. Method of verification or validation:

- Surprise visit to the assessment location

- Virtual meet with the Assessor / Trainees

6. Method for assessment documentation, archiving, and access

- Hard copies of the documents are stored, soft copies of assessment evidences are stored in Email for future correspondence

On the Job:

1. Each module (which covers the job profile of Machine Operator Injection Moulding) will be assessed during the assessment.
2. The candidate must have adequate knowledge in the relevant module of the OJT.
3. Evidences of OJT:
 - Videos of Trainees during the OJT
 - Photographs of Trainees during the OJT
4. Ensure that the candidate is able to:
 - Effective engagement with the customers
 - Understand the working of various tools and equipment

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 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.
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