



# Model Curriculum

QP Name: Assistant Machine Operator - Plastics Recycling

NQR Code: QG-03-CP-04133-2025-V2-CIPET

QP Version: 2.0

NSQF Level: 3

Model Curriculum Version: 1.0

Sector: Chemicals & Petrochemicals (CPC)

**Central Institute of Petrochemicals Engineering & Technology (CIPET)**

Department of Chemicals & Petrochemicals, Ministry of Chemicals & Fertilizers, Govt. of India  
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# Training Parameters

<b>Sector</b>	Chemicals and Petrochemicals		
<b>Sub-Sector</b>	Petrochemicals		
<b>Occupation</b>	Assistant Machine Operator - Plastics Recycling		
<b>Country</b>	India		
<b>NSQF Level</b>	3		
<b>Aligned to NCO/ISCO/ISIC Code</b>	NCO-2015/9611		
<b>Minimum Educational Qualification and Experience</b>	<b>S. No.</b>	<b>Academic/Skill Qualification (with Specialization - if applicable)</b>	<b>Required Experience (with Specialization - if applicable)</b>
	1.	Grade 10 pass or equivalent	No Experience required
	2.	Grade 8 pass with two year of (NTC/ NAC) after 8 <sup>th</sup>	No Experience required
	3.	9 <sup>th</sup> Grade pass	1.5 years relevant experience
	4.	8 <sup>th</sup> grade pass	3 years relevant experience
<b>Pre-Requisite License or Training</b>	Not Applicable		
<b>Minimum Job Entry Age</b>	18 Years		
<b>Last Reviewed On</b>			
<b>Next Review Date</b>	25.05.2028		
<b>NSQC Approval Date</b>	26.05.2025		
<b>QP Version</b>	2.0		
<b>Model Curriculum Creation Date</b>	26.05.2025		
<b>Model Curriculum Valid Up to Date</b>	25.05.2028		
<b>Model Curriculum Version</b>	1.0		
<b>Minimum Duration of the Course</b>	480 Hrs.		
<b>Maximum Duration of the Course</b>	480 Hrs.		

## Program Overview

This section summarizes the end objective soft the program along with its duration.

### Training Outcomes

At the end of the program, the learner should have acquired the listed knowledge and skills.

After the successful completion of session, the trainee will be able to-

- Industrial Safety Practices in Plastics Recycling
- Fitter Tools & Fitting Equipments used in Plastics Recycling
- Introduction to Polymers, Plastics Material selection for particular application in Plastics Recycling, Plastics Raw Material- Thermoplastics, Thermosets, Engineering Plastics etc.
- Plastics Recycling process for Plastics-Machine Types, Process, Dies etc.
- Faults and Remedies in Plastics Recycling
- Post Recycling Operations for Recycled Products
- English Communication skills
- Basic Computer concepts
- 5S and TQM CONCEPTS, Industrial Visits

### Compulsory Modules

The table lists the modules and their duration corresponding to the Compulsory NOS of the QP.

NOS and Module Details	Theory Duration	Practical Duration	On-the-Job Training Duration (Mandatory)	On-the-Job Training Duration (Recommended)	Total Duration
<b>Module 1:</b> CPC/N 2911: Understand basic concepts, job requirements & basics knowhow related to process.	20:00	70:00	00:00	00:00	<b>90:00</b>
<b>Module 2:</b> CPC/N 2912: Assist in performing the Plastics Recycling related operations, monitor process parameters and troubleshoot the process/material if any under the guidance of Operator	60:00	150:00	00:00	00:00	<b>210:00</b>
<b>Module 3:</b> CPC/N 2913: To conduct basic quality check of finished product with reference to approved product	20:00	40:00	00:00	00:00	<b>60:00</b>
<b>Module 4:</b> CPC/N 0411: To maintain basic health & safety practices at workplace, 5S.	10:00	20:00	00:00	00:00	<b>30:00</b>
<b>Module 5:</b> CPC/N 0219: Basics of computer and data entry in MS OFFICE/office Open source suite Software	10:00	20:00	00:00	00:00	<b>30:00</b>
<b>Module 6:</b> DGT/VSQ/N0101 - Employability Skills	30:00	00:00	00:00	00:00	<b>30:00</b>
<b>Module 7:</b> On the Job Training (OJT)	00:00	00:00	30:00	00:00	<b>30:00</b>
<b>Total Duration</b>	<b>150:00</b>	<b>300:00</b>	<b>30:00</b>	<b>00:00</b>	<b>480:00</b>

## Module Details

### Module1: CPC/N 2911: Understand basic concepts, job requirements & basics knowhow related to process

#### Mapped to:

#### Terminal Outcomes:

- Understanding the work order and the process requirement from the operator.
- Arranging the required Plastics Waste Materials for the process.
- Assist in cleaning the equipment and the plastic waste for the process.

<b>Duration: 20:00 Hours</b>	<b>Duration: 70:00 Hours</b>
<b>Theory – Key Learning Outcomes</b>	<b>Practical – Key Learning Outcomes</b>
<ul style="list-style-type: none"> <li>● Interact with the operator in order to understand the production schedule.</li> <li>● Check availability of the personal protective equipments (PPE) like Gloves, Goggles etc</li> <li>● Ensure that the required Plastics Waste material is procured from the store before starting the process</li> <li>● Identify the Die &amp; Pelletizer etc. required for executing the required operation and ensure that the same is available for operation.</li> <li>● Collect the Die from the tool room, If Die is not available.</li> <li>● Install and bolt the Die and pelletizer etc. in place.</li> <li>● Ensure cleaning of the area around the apparatus for any oil, grease, combustible substances etc. so as to prevent any accident.</li> <li>● Ensure availability of the coolant and working of valves to circulate the coolant to cool and solidify plastics filaments for pelletizing</li> </ul>	<ul style="list-style-type: none"> <li>● To ensure availability of consumables and plastics materials for production in sufficient quantity as per production plan/operators instructions.</li> <li>● Clearly understanding the does and don'ts of the manufacturing process as defined in SOPs/ Work Instructions or defined by operator</li> <li>● Understand the molding procedure and process to be adopted for completing the work order from the operator by referring to the Work Instruction document/ SOP manual.</li> <li>● Ensure that the required plastics waste material is procured from the store before starting the process.</li> <li>● Understand the Die and pelletizer etc. required for executing the required operation and ensure that the same is available for operation</li> <li>● Ensure cleaning of the other auxiliaries tools, (if any) before the initiation of the recycling and pelletizing process.</li> <li>● Ensure availability of the coolant and working of valves to circulate the coolant to cool and solidify plastic filaments for pelletizing.</li> <li>● Understand the plastics waste material like dust, moisture etc. required for executing the activity</li> <li>● Refer the queries to supervisor if they cannot be resolved by the operator</li> <li>● Confirm self - understanding to the operator once the query is resolved so that all doubts &amp; queries can be resolved before the actual process execution</li> </ul>

**Classroom Aids:**

Charts, Models, Video presentation, Flip Chart, Whiteboard/Smart Board, Marker, Duster

**Tools, Equipment and Other Requirements**

Steel rule 15 cm with metric Graduations, Measure Tape, Outside, inside spring calliper, Screwdriver 15 c  
Scrap Grinder, Turbo Washer, Oven/ Drier, Dehumidifier, Microprocessor based Plastics Recycling  
Machine (Extruder), Automatic Hopper Loader, Colour Blender, Barrel/Die Temperature Controller, Blow  
lamp, Weighing balance, Cooling tower, Utility equipment (Cooling Circuit), Steel rule 15 cm with metric  
Graduations, Outside, inside spring caliper, Screwdriver 15 cm, Screwdriver set, D/E spanner set inch &  
mm, Allen key set inch & mm, Hand Hacksaw frame adjustable, Flat file second cut & smooth, Half round  
file second cut & smooth, Needle file rough & smooth, Micrometre 0-25 mm, Vernier caliper, Thickness  
gauge, Safety PPE's like apron, gloves etc.

## Module2: CPC/N 2912: Assist in performing the Plastics recycling related operations, monitor process parameters and troubleshoot the process/material if any under the guidance of Operator.

### Mapped to:

#### Terminal Outcomes:

- Assist in checking the operations of the equipment
- Feeding the grinded plastic waste as per requirement.
- Assisting in setting up and operating the plastics recycling machine
- Perform visual Check of output products
- Report problems to operator if any

<b>Duration: 60:00 Hours</b>	<b>Duration: 150:00 Hours</b>
<p><b>Theory – Key Learning Outcomes</b></p> <ul style="list-style-type: none"> <li>● Fix the desired Die to the recycling machine in order to achieve the desired operation as per the Work Instructions/SOPs</li> <li>● Make modifications in the process parameters (by selecting the right program from the machine control system) if required and ensure alignment with the prescribed standards as guided by Operator</li> <li>● Ensure that the grinded plastic waste is mixed with additives (if any) before being fed into the hopper.</li> <li>● Ensure that the dimensions of the output product (Pellets) are measured as per the process given in the Work Instructions/SOP under guidance of operator</li> <li>● Feed the required operation code in the apparatus for heaters to melt the grinded plastic waste at the predefined temperature.</li> <li>● Run the machine in Semi-Auto or Automatic mode of operation as guided by the operator.</li> </ul>	<p><b>Practical – Key Learning Outcomes</b></p> <ul style="list-style-type: none"> <li>● Check for operation of recycling apparatus like hopper, heaters etc. as per the checklist provided</li> <li>● . Fix the desired Die to the recycling machine in order to achieve the desired operation as per the Work Instructions/ SOPs.</li> <li>● Perform preheating of grinded plastic waste. (In case of Engineering plastics</li> <li>● Ensure that the grinded plastic waste is mixed with additives (if any) before being fed into the hopper.</li> <li>● Conduct a test process and produce a sample output as per the required</li> <li>● Start the production process as instructed by the Operator.</li> <li>● Check-list procedure to ensure quality of final product.</li> </ul>
<p><b>Classroom Aids:</b></p> <p>Charts, Models, Video presentation, Flip Chart, Whiteboard/Smart Board, Marker, Duster</p>	
<p><b>Tools, Equipment and Other Requirements</b></p> <p>Steel rule 15 cm with metric Graduations, Measure Tape, Outside, inside spring calliper, Screwdriver set, Scrap Grinder, Turbo Washer, Oven/ Drier, Dehumidifier, Microprocessor based Plastics Recycling Machine (Extruder), Automatic Hopper Loader, Colour Blender, Barrel/Die Temperature Controller, Blow lamp, Weighing balance, Cooling tower, Utility equipment (Cooling Circuit), D/E spanner set inch &amp; mm, Allen key set inch &amp; mm, Hand Hacksaw frame adjustable, Flat file second cut &amp; smooth, Half round file second cut &amp; smooth, Needle file rough &amp; smooth, Micrometre 0-25 mm, Vernier caliper, Thickness gauge, Safety PPE's like apron, gloves etc.</p>	

## Module3: CPC/N 2913: To conduct basic quality check of finished product with reference to approved product.

### Mapped to:

#### Terminal Outcomes:

- Checking of finished materials for detect or any deviations from the approved material
- Assisting in Corrective batch process with minor defects
- Perform Batch Quality Procedure

<i>Duration: 20:00 Hours</i>	<i>Duration: 40:00 Hours</i>
<b>Theory – Key Learning Outcomes</b>	<b>Practical – Key Learning Outcomes</b>
<ul style="list-style-type: none"> <li>• Compare colour, surface properties, MFI, and melting point etc. with the given approved material.</li> <li>• Rectify minor defects like pellets size, colour variation etc. by control process parameters etc and informing operator.</li> <li>• Provide first and last output from each batch to the lab for quality check on its composition, properties etc.</li> <li>• Obtain clearance for the entire batch from the lab and submit the operator.</li> </ul>	<ul style="list-style-type: none"> <li>• Compare colour, specific gravity, melt properties etc. with the given approved materials</li> <li>• Rectify minor defects like pellet size variation, colour variation etc. by control process parameters etc. and informing operator</li> <li>• Provide first and last output from each batch to the lab for quality check on its composition, properties etc</li> <li>• Obtain clearance for the entire batch from the lab and submit the operator.</li> </ul>
<b>Classroom Aids</b>	
Charts, Models, Video presentation, Flip Chart, White-Board/Smart Board, Marker, Duster	
<b>Tools, Equipment and Other Requirements</b>	
Steel rule 15 cm with metric Graduations, Measure Tape, Outside, inside spring calliper, Screw driver 15 c Scrap Grinder, Turbo Washer, Oven/ Drier, Dehumidifier, Microprocessor based Plastics Recycling Machine (Extruder), Automatic Hopper Loader, Colour Blender, Barrel/Die Temperature Controller, Blow lamp, Weighing balance, Cooling tower, Utility equipment (Cooling Circuit), Steel rule 15 cm with metric Graduations, Outside, inside spring caliper, Screwdriver 15 cm, Screwdriver set, D/E spanner set inch & mm, Allen key set inch & mm, Hand Hacksaw frame adjustable, Flat file second cut & smooth, Half round file second cut & smooth, Needle file rough & smooth, Micrometre 0-25 mm, Vernier caliper, Thickness gauge, Safety PPE's like apron, gloves etc.	

## Module4: CPC/N 0411: To maintain basic health & safety practices at workplace, 5S

### Mapped to:

#### Terminal Out comes:

- Health and safety procedure.
- Fire safety procedure.
- Emergencies, rescue and first aid procedures.
- Ensure sorting, stream lining, storage and documentation, cleaning, standardization and sustenance across the plant premises of the organization.

<b>Duration: 10:00 Hours</b>	<b>Duration: 20:00 Hours</b>
<p><b>Theory – Key Learning Outcomes</b></p> <ul style="list-style-type: none"> <li>● Wear protective clothing/equipment for specific tasks and work conditions</li> <li>● Carry out safe working practices while dealing with hazards to ensure the safety of self and others.</li> <li>● Apply good housekeeping practices at all times</li> <li>● Demonstrate rescue techniques applied during fire hazard, demonstrate good housekeeping in order to prevent fire hazards, demonstrate the correct use of a fire extinguisher</li> <li>● Carry out safe working practices while dealing with hazards to ensure the safety of self and others</li> <li>● Demonstrate rescue techniques applied during fire hazard, demonstrate good housekeeping in order to prevent fire hazards, demonstrate the correct use of a fire extinguisher.</li> </ul>	<p><b>Practical – Key Learning Outcomes</b></p> <ul style="list-style-type: none"> <li>● Carry out safe working practices while dealing with hazards to ensure the safety of self and others.</li> <li>● Apply good housekeeping practices at all times</li> <li>● Use the various appropriate fire extinguishers on different types of fires correctly</li> <li>● Demonstrate rescue techniques applied during fire hazard, demonstrate good housekeeping in order to prevent fire hazards, demonstrate the correct use of a fire extinguisher.</li> <li>● 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.</li> <li>● Conduct regular checks with support of the maintenance team on machine health to identify potential hazards due to wear and tear of machine.</li> <li>● Create awareness amongst other by sharing information on the identified risks.</li> <li>● Ensure segregation of waste in hazardous/ non Hazardous waste as per the sorting work instructions</li> <li>● Follow the technique of waste disposal and waste storage in the proper bins as per SOP</li> <li>● Segregate the items which are labeled as red tag items for the process area and keep them in the correct places</li> <li>● Follow the floor markings/ area markings used for demarcating the various sections in the plant as per the prescribed instructions and standards.</li> <li>● Check that the items in the respective areas have been identified as broken or damaged</li> <li>● Make sure that all material and tools are stored in the designated places and in the manner indicated in the 5S instructions.</li> </ul>
<p><b>Classroom Aids:</b></p> <p>Charts,Models,Videopresentation,FlipChart,White-Board/SmartBoard,Marker,Duster</p>	
<p><b>Tools, Equipment and Other Requirements</b></p> <p>Safety PPE's like apron, gloves etc.</p>	

## Module5: CPC/N 0219: Basics of computer and data entry in MS OFFICE/office Open source suite Software.

**Mapped to:**

### Terminal Outcomes:

- Enter, update and maintain data in MS Office / Open Source office suite software.

<b>Duration:</b> 10:00 Hours	<b>Duration:</b> 20:00 Hours
<b>Theory – Key Learning Outcomes</b>	<b>Practical – Key Learning Outcomes</b>
<ul style="list-style-type: none"> <li>• Fill and process mandated forms for receiving, processing, or tracking data, enter data from source documents (such as trial report, process sheet etc.) into a Computer application having MS Office / Open Source office suite software.</li> <li>• Scan source documents in accordance with specific instructions.</li> <li>• Maintain files of source documents or other information related to data entered.</li> <li>• Update database information to reflect most current source information</li> </ul>	<ul style="list-style-type: none"> <li>• Filling and processing mandated forms for receiving, processing, or tracking data enter data from source documents (such as trial report, process sheet etc.) into Computer applications having MS Office / Open Source office suite software.</li> <li>• Scanning source documents in accordance with specific instructions.</li> <li>• verify data entered with source documents, checks for compliance and corrects all typographical errors and missing or repeated data.</li> <li>• Maintain files of source documents or other information related to data entered.</li> <li>• update database information to reflect most current source information</li> <li>• Assist in the filing and storage of security and back up data files</li> </ul>
<b>Classroom Aids:</b>	
Charts,Models,Videopresentation,FlipChart,White-Board/SmartBoard,Marker,Duster	
<b>Tools, Equipment and Other Requirements</b>	
Computer with MS Office / Open Source office suite software, UPS, Table Chair etc.	

## Module 6: Employability Skills

Mapped to: DGT/VSQ/N0101: Employability Skills

<b>Mandatory Duration: 30:00 Hours</b>			
<b>Location: Training Centre</b>			
<b>S. No.</b>	<b>Module Name</b>	<b>Key Learning Outcomes</b>	<b>Duration (hours)</b>
1.	Introduction to Employability Skills	<ul style="list-style-type: none"> <li>Discuss the importance of Employability Skills in meeting the job requirements.</li> </ul>	1
2.	Constitutional values - Citizenship	<ul style="list-style-type: none"> <li>Explain constitutional values, civic rights, duties, citizenship, responsibility towards society etc. that are required to be followed to become a responsible citizen.</li> <li>Show how to practice different environmentally sustainable practices.</li> </ul>	1
3.	Becoming a Professional in the 21st Century	<ul style="list-style-type: none"> <li>Discuss 21st century skills.</li> <li>Display positive attitude, self -motivation, problem solving, time management skills and continuous learning mindset in different situations.</li> </ul>	1
4.	Basic English Skills	<ul style="list-style-type: none"> <li>Use appropriate basic English sentences/phrases while speaking.</li> </ul>	2
5.	Communication Skills	<ul style="list-style-type: none"> <li>Demonstrate how to communicate in a well -mannered way with others.</li> <li>Demonstrate working with others in a team.</li> </ul>	4
6.	Diversity & Inclusion	<ul style="list-style-type: none"> <li>Show how to conduct oneself appropriately with all genders and PwD.</li> <li>Discuss the significance of reporting sexual harassment issues in time.</li> </ul>	1
7.	Financial and Legal Literacy	<ul style="list-style-type: none"> <li>Discuss the significance of using financial products and services safely and securely.</li> <li>Explain the importance of managing expenses, income, and savings.</li> <li>Explain the significance of approaching the concerned authorities in time for any exploitation as per legal rights and laws.</li> </ul>	4
8.	Essential Digital Skills	<ul style="list-style-type: none"> <li>Show how to operate digital devices and use the associated applications and features, safely and securely.</li> <li>Discuss the significance of using internet for browsing, accessing social media platforms, safely and securely.</li> </ul>	3
9.	Entrepreneurship	<ul style="list-style-type: none"> <li>Discuss the need for identifying opportunities for potential business, sources for arranging money and potential legal and financial challenges.</li> </ul>	7
10.	Customer Service	<ul style="list-style-type: none"> <li>Differentiate between types of customers.</li> <li>Explain the significance of identifying customer needs and addressing them.</li> <li>Discuss the significance of maintaining hygiene and dressing appropriately.</li> </ul>	4
11	Getting ready for apprenticeship & Jobs	<ul style="list-style-type: none"> <li>Create a biodata.</li> <li>Use various sources to search and apply for jobs.</li> <li>Discuss the significance of dressing up neatly and maintaining hygiene for an interview.</li> <li>Discuss how to search and register for apprenticeship opportunities.</li> </ul>	2

LIST OF TOOLS & EQUIPMENT FOR EMPLOYABILITY SKILLS		
S.No.	Name of the Equipment	Quantity
1.	Computer (PC) with latest configurations – and Internet connection with standard operating system and standard word processor and worksheet software (Licensed) (all software should either be latest version or one/two version below)	As required
2.	UPS	As required
3.	Scanner cum Printer	As required
4.	Computer Tables	As required
5.	Computer Chairs	As required
6.	LCD Projector	As required
7.	Whiteboard	As required
<i>Note: Above Tools &amp; Equipment not required, if Computer LAB is available in the institute.</i>		

## Module 7: On-the-Job Training

*Mapped to:*

<b>Mandatory Duration:</b> 30:00 Hours
<b>Module Name:</b> On-the-Job Training
Location: On Site
<b>Terminal Outcomes</b> <ul style="list-style-type: none"><li>● On-the-Job Training (OJT) is a hands-on learning method where participants acquire skills and knowledge while performing their job tasks.</li><li>● Participants learn specific job-related skills that are directly applicable to their roles.</li><li>● Industrial training often leads to participants becoming more effective and efficient in their learning.</li><li>● Industrial training experience builds the confidence level of participants.</li><li>● Training occurs in the actual work environment, reducing the need for induction training programs while joining in industry.</li><li>● Interaction with industry captains or mentors during training strengthens learning teamwork and workplace relationships.</li><li>● Trainees become familiar with the industrial tools, systems, and workflows quickly.</li><li>● Participants encounter and address challenges in industry, developing critical thinking and adaptability.</li></ul>

# Annexure

## Trainer Requirements

Trainer Prerequisites						
Minimum Educational Qualification	Specialization	Relevant Industry Experience		Training Experience		Remarks
		Years	Specialization	Years	Specialization	
Diploma	Plastics / Polymer Engineering / Technology	2	Plastics Processing Industry	-	-	-
B.E. / B.Tech. / M.Sc.	Plastics / Polymer Engineering / Science	-	-	-	-	-

Trainer Certification	
Domain Certification	Platform Certification
Minimum Educational Qualification as above, additionally he/ she should have done a job role relevant skill training course from CIPET.	Recommended that the Trainer Should have done a job role relevant upskilling course from CIPET.

## Assessor Requirements

Assessor Prerequisites						
Minimum Educational Qualification	Specialization	Relevant Industry Experience		Training/Assessment Experience		Remarks
		Years	Specialization	Years	Specialization	
Diploma	Plastics / Polymer Engineering / Technology	2	Plastics Processing Industry	3	Plastics / Polymer Engineering / Technology	-
B.E. / B.Tech.	Plastics / Polymer Engineering	1	Plastics Processing Industry	1	Plastics / Polymer Engineering	-

Assessor Certification	
Domain Certification	Platform Certification
Minimum Educational Qualification as above, additionally he/ she should have done a job role relevant skill training course from CIPET.	Recommended that the Trainer Should have done a job role relevant upskilling course from CIPET.

## 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

## References

### Glossary

Sector	Sector is a conglomeration of different business operations having similar business and interests. It may also be defined as a distinct subset of the economy whose components share similar characteristics and interests.
Sub-sector	Sub-sector is derived from a further breakdown based on the characteristics and interests of its components.
Occupation	Occupation is a set of job roles, which perform a similar/ related set of functions in an industry.
National Occupational Standards (NOS)	NOS are occupational standards which apply uniquely in the Indian context.
Qualifications Pack (QP)	QP comprises the set of OS, together with the educational, training and other criteria required to perform a job role. A QP is assigned a unique qualification pack code.

## Acronyms and Abbreviations

NOS	National Occupational Standard(s)
NSQF	National Skills Qualifications Framework
QP	Qualifications Pack
OJT	On-the-job Training
PwD	People with Disability PPE Personal Protective Equipment ES Employability Skills
PPE	Personal Protective Equipment
ES	Employability Skills