**CONTACT DETAILS OF THE AWARDING BODY FOR THE QUALIFICATION**

**Name and address of awarding body:** Central Institute of Plastics Engineering and Technology (CIPET), Ministry of Chemicals and Fertilizers, Department of Chemicals and Petrochemicals, Govt. of India, Hajipur, Industrial Area, Vaishali, Bihar. 844102.

**Name and contact details of individual dealing with the submission**

Dr. P.C. Padhi, Director& Head, CIPET Hajipur, Industrial Area, Vaishali, Bihar. 844102. Ph: +91-6224-277424,270085,273515.

E-mail address**:**cipetpatna@gmail.com, hajipur@cipet.gov.in

**SUMMARY**

|  |
| --- |
| **Qualification Title:** Plastics Processing Operator |
| **Nature and Purpose of the qualification:**  A CIPET trade certificate for Plastics Processing Operator and the he individual at work sets up and operates the Plastics Processing moulding machine to produce good quality products from Plastics materials. He is responsible for produce bottles, containers or others hollow objects from plastics resin by operating semi & fully automatic and advance Plastics Processing Moulding machines, troubleshooting process problems and performing minor maintenance to ensure continued operation of the production line. They are also responsible for completing the output learn Good Manufacturing Practices. |
| **Body/bodies which will award the qualification:**  Central Institute of Plastics Engineering and Technology (CIPET), Ministry of Chemicals and Fertilizers, Department of Chemicals and Petrochemicals, Govt. of India, Hajipur, Industrial Area, Vaishali, Bihar. 844102. |
| **Body which will accredit providers to offer courses leading to the qualification:**  Central Institute of Plastics Engineering and Technology (CIPET), Ministry of Chemicals and Fertilizers, Department of Chemicals and Petrochemicals, Govt. of India, Hajipur, Industrial Area, Vaishali, Bihar. 844102. |
| **Body/bodies which will be responsible for assessment:**  The assessment is being carried out at of Central Institute of Plastics Engineering and Technology (CIPET), Ministry of Chemicals and Fertilizers, Department of Chemicals and Petrochemicals, Govt. of India, Hajipur, Industrial Area, Vaishali, Bihar. 844102. |
| **Occupation(s) to which the qualification gives access:**  Plastics Processing Operator occupation in Plastics product manufacturing process. |
| **Proposed level of the qualification in the NSQF:** |
| **Anticipated volume of training/learning required to complete the qualification:**  720 Notional hours. |
| **Entry requirements / recommendations:**  Minimum qualification – Preferably Min -Class X/ITI, Minimum age - 18 years completed. |
| **Progression from the qualification:**  The Plastics Processing Operator has a clear pathway. |
| **Planned arrangements for the Recognition of Prior learning (RPL):**  RPL arrangements are being developed and will be informed in due course of time. |
| **International comparability where known:** It will be carried out in next phase as comparability is being verified. |
| **Date of planned review of Qualification:** 20.10.2017 |

|  |  |  |  |
| --- | --- | --- | --- |
| **Format Structure of the Qualification:** | | | |
| **Title and Identification code of component** | **Mandatory/ Optional** | **Estimated Size (Notional Hours)** | **Level** |
| 1. Familiarization with basic concepts, job requirements & basic related process | M | 120 |  |
| 2.Basic Knowledge about different plastic material | M | 60 |  |
| 3. Familiarized with various Plastics processing techniques & to assist the Operator in Injection Moulding & its Trouble shooting | M | 180 |  |
| 4. Familiarized with various Plastics processing techniques & to assist the Operator in Extrusion & its Trouble shooting | M | 180 |  |
| 5.Familiarized with various Plastics processing techniques & to assist the Operator in Blow Moulding & its Trouble shooting etc. | M | 120 |  |
| 6.To practice & maintain safety precautions on shop floor and good work environment | M | 60 |  |
|  |  | 720 |  |

|  |
| --- |
| **Body/Bodies which will carry out assessment:**  A Separate department/ body -Training Assessment Wing of Central Institute of Plastics  Engineering and Technology (CIPET), Ministry of Chemicals and Fertilizers, Department of Chemicals and Petrochemicals, Govt. Of India, Hajipur, Vaishali, Bihar 844102.  **Will the assessment body be responsible for RPL assessment?**  RPL arrangements are being developed and will be informed in due course of time.  **Describe the overall assessment strategy and specific arrangements which have been put in place to ensure that assessment is always valid, consistent and fair and show that these are in line with the requirements of the NSQF:**  With uniformity and setting of learning outcomes for different Jobs Roles the assessment of candidates will be at learning outcome level. Assessment criterion has been defined for each learning outcome and it includes both theoretical and practical skills on which the candidate will be assessed. The question suite which will be used to check the skills of the trainee would include  **Theoretical test suite –** Will include multiple choice questions, audio-video question etc.  which will test the trainee on his knowledge of the subject  **Practical Knowledge suite –** Practical knowledge can be tested through Assessor driven evaluation/test, Situational Judgment Tests etc to test practical core competence. A mix of these would be able to evaluate the trainee on his practical knowledge of the  Qualification Document.  **Assessment strategy:**   1. Assessment criteria for Qualification Document have been developed. Each Learning Outcome have separate marks for Theory and Practical Skills. 2. 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.   1. Set of question bank developed to assess the theoretical and practical knowledge. To   ensure the quality, each trainees get the unique set of question   1. 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. 2. Empanelment of subject matter expert as assessor to assess trainee specifically on   practical skills   1. Assessments are preferably conducted by written examination papers in English/   regional languages according to the requirement.   1. It has been ensure that TP/trainer should not be present during assessment |

**Assessment Process Flow:**

**Request for evaluation of batch by**

**Training Partner**



**Allocation of batch to Training Assessment wing**



**Evaluation of batch by Training Assessment wing as per schedule and as per Assessment Process**



**Assessment observation data input sheet from Training Assessment wing including viva, practical and theory marks**



**Result finalization**



**Uploading of result on IT database platform**

**Summative Assessment**:

Based on the Total Marks allotted for the specific subject, formal evaluation shall be conducted. Based on secured marks, candidates shall be declared pass or fail.

Steps undertaken for summative assessment:

1. Based on Completion of Batch, Evaluation Schedule shall be prepared
2. Identified Assessor is nominated for Evaluation
3. Setting up of separate Question Paper for Theory & Practical Examination
4. Conduct of examination as per the schedule
5. Evaluation & Certification

**Evidence Collected during Assessment:** Theoretical Answer Sheets, Practical Exam Sheets,Evaluation Sheets, Jobs produced during practical Exams.

**Protocol for Selection of Assessors:**

* The Assessors should have the minimum qualification: Degree in Engineering.
* The Assessors should have minimum 5 years of Experience in the relevant field.

**ASSESSMENT EVIDENCE**

**Assessment Guidelines:**

1. Criteria for assessment for each Qualification Document will be 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.

**Title of the Component:** Plastics Processing Operator

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Assessable outcome** | | **Assessment criteria for the**  **outcome** | | |
| **LO** | **Assessable outcome Description** | **Theory** | **Practical** | **Total** |
| 1. Familiarization with basic concepts, job requirements & basic related process. | AO1. Discuss the work order ( work output) required from the process and with the supervisor  AO2. Refer all components / process related documents to understand dimensions and properties of the required work output  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  AO4. Clearly understanding the does and don’ts of the manufacturing process as defined in SOPs/ Work Instructions or defined by supervisors  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  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  AO7. Understand the raw material like plastics granules, bonding additives etc. required for executing the activity  AO8. Ensure that the required material is available before starting the process  AO9. Understand the type of Mould /Die required for executing the required conversion operation and ensure that the same is available for moulding operations  AO10. Ensure the availability of spare parts for continuous operation of machine  AO11. Ensure that mould / Die are cleaned properly & no foreign material is entrapped in parts of mould/die.  AO12. Ensure cleaning of the other moulding machine tools, auxiliaries(if any)  AO13. Ensure cleaning of the area around the machine for any oil, grease, water etc  AO14. Consult with superiors in case of any doubt/clarification  AO15. Self-confidence after resolving the queries to complete the task.  AO16. Report completion of work to superiors  AO17. Good interpersonal relations with superiors & fellow operators.  AO18. Disciplined behavior in work place  AO19. Good coordination with other department person for getting their support for work. | 36 | 84 | 120 |
|  | Sub Total | 36 | 84 | 120 |
| 2. 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  AO2. Refer all material related documents to understand properties of the required work output and able to identify the material  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  AO4. Understand the melting temperature, processing temperature etc. for plastic raw material  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  AO6. Ensure that the required material is available before starting the process  AO7. Ensure that the plastics material is blended with requisite additives  AO8. Ensure that machine / mould / Die are cleaned properly & no foreign material is entrapped in parts of machine / mould / die.  AO9. Ensure cleaning of the materials spilled around the machine  AO10. Ensure cleaning of the area around the machine for any oil, grease, water etc | 18 | 42 | 60 |
|  | Sub total | 18 | 42 | 60 |
| 3. Operate the Injection moulding machine & its trouble shooting | AO1. Planning work schedule in concurrence with Superior  AO2. Obtain and check the data on the job card and carry out functions in line with the responsibilities of job role  AO3. Ensure availability of data sheet, manual, work instructions AO4. for power supply, hydraulic oil level, water connections  AO5. Ensure availability of the tools ,materials & ancillary equipments for the work  AO6. Setup the equipment & machineries as per the job requirement  AO7. Update and develop knowledge of the products  AO8. Planning for Minimum wastage & its safe disposal  AO9. Work in conformance to legal requirements, organizational policies and procedures  AO10. Ensure that the mould is ready & having no problem in dry run  AO11. Check material is available for production. If required arrange for pre drying AO12. Check the availibity & readiness of ancillary equipments like chiller, mould Temperature controller, hopper loader, Cooling towers etc AO13. Load the material and pigment (if required) in the hopper  AO14. Set the parameters of the machine i.e temperature, pressure, speed etc  AO15. Check the temperature on the barrel with respect to set temperature  AO16. Conduct trial run to get sample piece once machine is set  AO17. Adjust parameters unless getting final product  AO18. Visual check of final product  AO19. Define accepted products and defective products as per approved plan  AO20. Carry out post molding operation during the cycle time run such as. trimming, apply protective tapes, putting labels on each product for identification  AO21. Store the final product in specified area  AO22. Clean the machine & equipments at regular interval 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.  AO26. Root cause analysis of moulding defects  AO27. Analysis of data sheets available in department  AO28. Taking all corrective & preventive action  AO29. Reporting the problems caused by machines to superior, when not resolved by operator. AO30. Report defects in the moulds that one do not have the authority to repair  AO31. Report major processing defects beyond control of operator  AO32. Keeping records of machine log book, data sheet of machine parameter  AO33. Documents related to incoming & outgoing material AO34. Meet targets & goals for production  AO35. Minimize defects in final product  AO36. Follow quality system to get better product  AO37. Keep work area clean & systematic  AO38. Comply to safety & health guidelines & rules | 54 | 126 | 180 |
|  | Sub total | 54 | 126 | 180 |
| 4. Operate the extrusion machine & its trouble shooting | AO1. Planning work schedule in concurrence with Superior AO2.Obtain and check the data on the job card and carry out functions in line with the responsibilities of job role  AO3. Ensure availability of data sheet, manual, work instructions AO4. Check for power supply, oil level in gear box, water connections  AO5. Ensure availability & functioning of the tools ,materials & ancillary equipments l like Air Compressor, Cooling Tower, High Speed Mixer etc for the work  AO6. Setup the equipment & machineries as per the job requirement  AO7. Update and develop knowledge of the products to be produced  AO8. Planning for Minimum rejection & its safe reuse/disposal  AO9. Safety aspects of machine operation  AO10. Work in conformance to legal requirements, organizational policies and procedures  AO11. Check material is available for production. Compounding / Color blending AO12. Check the availibity & readiness of ancillary equipments like air compressor, hopper loader, dehumidifier, Cooling towers etc  AO13. Load the material in the hopper  AO14. Set the parameters of the machine i.e temperatures, speeds etc  AO15. Check the temperature on the barrel with respect to set temperature  AO16. Conduct trial run to get extruded sample once machine is set  AO17. Adjust parameters unless getting final product  AO18. Visual check of final product  AO19. Define accepted products and defective products as per approved plan  AO20. Corona treatment & printing, if required  AO21. Store the final product in specified area  AO22. Clean the machine & equipments at regular interval Work in compliance with specified health and safety standards  AO23. Preventive maintenance of machines & ancillary equipments  AO24. Coordination with maintenance department for resolving breakdown maintenance in minimum possible time.  AO25. Root cause analysis of extrusion defects  AO26. Analysis of data sheets available in department  AO27. Taking all corrective & preventive action  AO28. Reporting the problems caused by machines to superior, when not resolved by operator. AO29. Report defects in the moulds that one do not have the authority to repair  AO30. Report major processing defects beyond control of operator  AO31. Keeping records of machine log book, data sheet of machine parameter  AO32. Documents related to incoming & outgoing material AO33. Meet targets & goals for production  AO34. Minimise defects in final product  AO35. Follow quality system to get better product  AO36. Keep work area clean & systematic  AO37. Comply to safety & health guidelines & rules | 54 | 126 | 180 |
|  | Sub total | 54 | 126 | 180 |
| 5. Operate the Blow moulding machine & its trouble shooting | AO1. understand the process, their types, operations involved AO2. Discuss the work requirements for the process and with the supervisor  AO3. Refer all components / process related documents to understand dimensions and properties of the required work output  AO4. Understand 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 Clearly understanding the do’s and don’ts of the blow molding process as defined in SOPs / Work Instructions or as defined by supervisors.  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  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  AO7. Understand the raw material like plastics granules, bonding additives etc. required for production  AO8. Ensure that the required material with enough stock is available before starting the process  AO9. Understand the type of Mould / Die required to complete the conversion operation and ensure that the same is available for moulding operations  AO10. Ensure the availability of spare parts for continuous operation of machine  AO11. Understand the troubleshooting of the blow molding process. Knows the quality defects observed in blow molding, their causes and remedies  AO12. Set the parameters to ensure manufacturing of good product.  AO13. Ensure that mould / Die are cleaned properly & no foreign material is trapped in parts of mould/die.  AO14. Ensure cleaning of the other moulding machine tools, auxiliaries (if any)  AO15. Ensure cleaning of the area around the machine for any oil, grease, water etc  AO15. Ensure cleaning of the area around the machine for any oil, grease, water etc  AO15. Ensure cleaning of the area around the machine for any oil, grease, water etc  AO18. Report major processing defects beyond control of operator  AO19. Keeping records of machine log book, data sheet of machine parameter  AO20. Documents related to incoming & outgoing material AO21. Meet targets & goals for production  AO22. Minimise defects in final product  AO23. Follow quality system to get better product  AO24. Keep work area clean & systematic  AO25. Comply to safety & health guidelines & rules | 36 | 84 | 120 |
|  | Sub total | 36 | 84 | 120 |
| 6. To practice & maintain safe and good work environment. | AO1. Identify activities which can cause potential injury through sharp objects, burns, fall, electricity, gas leakages, radiation, poisonous fumes, chemicals ,loud noise  AO2. Identify areas in the plant which are potentially hazardous/ unhygienic in nature AO3. Conduct regular checks with support of the maintenance team on machine health to identify potential hazards due to wear and tear of machine  AO4. Inform the concerned authorities about the potential risks identified in the processes, workplace area/ layout, materials used etc  AO5. Inform the concerned authorities about machine breakdowns, damages which can potentially harm man/ machine during operations AO6. Create awareness amongst other by sharing information on the identified risks  AO7. Support the Safety team and the supervisor in creating the risk mitigation plan  AO8. Follow the instructions given on the equipment manual describing the operating process of the equipment  AO9. Follow the Safety, Health and Environment related practices developed by the organization  AO10. Ensure relevant safety boards/ signs are placed on the shop floor  AO11. Operate the machine using the recommended Personal Protective Equipment (PPE) and ensure team members also use the related PPEs at the workplace  AO12. Maintain a clean and safe working environment near the work place and ensure there is no spillage of chemicals, production waste, oil, solvents etc.  AO13. Attend all safety and fire drills to be self-aware of safety hazards and preventive techniques  AO14. Maintain high standards of personal hygiene at the work place  AO15. Ensure that the waste disposal is done in the designated area and manner as per organization SOP.  AO16. Inform appropriately the medical officer/ HR in case of self or an employee’s illness of contagious nature so that preventive actions can be planned for others | 18 | 42 | 60 |
|  | Sub Total | 18 | 42 | 60 |
|  | Total | 216 | 504 | 720 |
| **Means of assessment 1:**  The assessment comprise of -Theory Assessment  Viva voce  Practical assessment | | | | |
| **Means of assessment 2:**  Pass/Fail-  The Pass mark of theory written assessment is 50% and for viva and practical assessment is 70%.  The candidate has to pass separately in Theory and Practical. | | | | |

**EVIDENCE OF LEVEL**

**Level of qualification**

|  |  |  |  |
| --- | --- | --- | --- |
| **Title /Name of Qualification/Component:** Plastics Processing Operator  **Level:** | | | |
| **NSQF Domain** | **Outcomes of the**  **Qualification/Component** | **How the job role**  **relates to the NSQF**  **Level descriptors** | **NSQF**  **Level** |
| **Process** | Plastics Processing Operator is expected to ensure housekeeping and safety in the production area and select  the correct die, etc he/she has to-   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 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   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   He also needs to understand and  practice Entering, update and  maintain data in MS Office system/  Office open source system. | Plastics Processing Operator 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.  He should  understand the  raw material like  plastics granules,  fillers, bonding  additives etc.  required for  executing the  activity, Dies  /Mould required,  their types etc. |  |
| **Professional**  **knowledge** | The user/individual on the job needs to know and understand:   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, and Blow. |  |  |
| **Professional**  **skill** | The user/individual on the job needs to know and understand:   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.  Support operator in using specific  problem solving techniques and  detailing out the problems   Discuss possible solution with the  supervisor for problem solving.  The user/individual on the job needs to know and understand how to:   Plan and organize the work order  and jobs received from the internal  customers/ operator.   Organize all process/ equipment  manuals so that sorting out  The user/individual on the job needs to know and understand how to:   Follow instructions and work on  areas of improvement identified   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:   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. | Plastics Processing Operator should recall  general principles  of Plastics  Extrusion  procedure and  process knowledge  which may be  repetitive type of  work in the area allotted, Types of  plastics like  thermoplastics and  the additives &  grades to be used,  Dies/Moulds, Its  types, application  etc. Thus he  should  demonstrate  practical skill,  routine and  repetitive in  Plastics processing,  he should also  understand quality  concepts and use  in the area of work  allotted. |  |
| **Core skill** | The user/ individual on the job needs to know and understand how to:   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.  The user/individual on the job needs to know and understand how to:   Discuss task lists, schedules, and  work-loads with coworkers/  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 a operator /fellow  sub ordinates etc. Unless it is  required. | Plastics Processing Operator should  be able to read  /write warnings,  instructions and  other text  material on  product labels,  components etc  with minimum  required clarity,  should have skill of basic  arithmetic, like  raw material  weights additions  etc. |  |
| **Responsibility** | Plastics Processing Operator is responsible for his own job and self learning.  He/she Set 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 occur 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  Extrusion & Blow  process which  justifies the  pegging of the QP. |  |

**EVIDENCE OF RECOGNITION AND PROGRESSION**

|  |
| --- |
| **What steps have been taken in the design of this or other qualifications to ensure that there is a clear path to other qualifications in this sector?**  Relevant information was collected from Industries and allied sector working in this area.  The Plastics industries are recruiting people based on the qualification acquired. Maximum  of the industries accept this as qualification for selection/short listing of the individual.  approved by members.  **Vertical Pathway:**  The Occupational Map has been created & attached.  The Plastics Processing Operator has a clear pathway  **Horizontal Pathway:**  The individual can migrate within the Plastics Processing related industries. |