|  | **Department/Location:** Quality Control / Unit 1 (SMD)  **Year:**\_\_\_2020\_ | | | | | | | | | |
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| **S#** | **Training Title** | **Key Contents** | **Resource Person/**  **Trainer\*** | **Institution\*\*** | **Potential Participants** | **Time Period** | | | |
| **Q 1** | **Q 2** | **Q 3** | **Q4** |
| 1 | Pigments and additives selection for Color Matching | * Overview of Polymers and introduction to their additives. * Selection criteria of pigments. * Practical training of color matching. | Asst. Manager R & D,  R & D Engineer | ---- | Shift In charges |  |  |  |  |
| 2 | Troubleshooting | * Injection molding and Rotational molding applications and related troubleshooting. * Troubleshooting for Extrusion including PP Woven Sacks and Blown Film. * Identifying defects in extrusion sheets, their profiles and troubleshooting. | Deputy Manager QC,  Asst. Manager QC | --- | Shift Engineers  Shift In charges |  |  |  |  |
| 3 | Awareness about End Applications | * Understanding the extrusion process. * Collection and analysis of historical data. * Condition of equipment. * Information of feedstock. | Deputy Manager QC,  Asst. Manager QC |  | Shift Engineers  Shift In charges |  |  |  |  |
| 4 | Overview of 5S and Implementation Plan | * Introduction to 5S. * Significance of 5S and its applications in organizing the workplace and better housekeeping in the lab. * Implementation plan of 5S in the lab and responsibility sharing. | Deputy QCM,  QHSE Member | --- | All QC Staff |  |  |  |  |
| 5 | Raw Material- Introduction | * Introduction to raw materials. * Types of raw materials. * Different grades and properties. * Selection criteria and process. | Deputy Manager QC  Asst. Manager | Maintenance | Shift In charges Operators |  |  |  |  |
| 6 | Extrusion Process-Introduction | * Introduction to extrusion process. * Extruder types and working. * Training extrusion process parameters like WI, SOPs etc. * Comparison of single and twin screw extrusion. * Comparison of counter rotating and co rotating twin screw extrusion of master batch properties. * Various zones and elements of twin screw extruder and their function. * Instrumentation control and working training from Mechanical / Electrical department. | Deputy Manager QC  Asst. Manager |  | Shift In charges Operators |  |  |  |  |
| 7 | Equipment Assembly and Working Procedures  (Refresher) | * Overview of equipment assembly (MFI, Injection, blown Film) and working procedures in detail. * Importance of each equipment and testing. * SOP of Quality Control Testing and Work instructions | Shift Engineer QC | ---- | Shift In-charges,  Operators |  |  |  |  |
| 8 | Awareness of QHSE | * Overview of QHSE Policy * Awareness about first aid. * Awareness of CPA and NC Procedure. * Enhancing responsiveness of Firefighting and Emergency | QHSE Team lead  QHSE Member | Compliance | Shift In-charges  Operators |  |  |  |  |
| 9 | Melt Flow Indexer (**MFI**)  (Refresher) | * Introduction to MFI and its significance in the process & QC. * Working principle of MFI. * Operating procedures with respect to ASTM Std. | Shift Engineer  QC | ---- | Shift In-charges,  Operators |  |  |  |  |

Prepared by (QHSE TL/HOD/HR):\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Approved by (GM):\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_