



PLASTICS TECHNOLOGY COURSE SEQUENCE CHART

YEAR I	1st Quarter PLT101 30 Basic Orientation Foundations of Plastics Technology PLT102 15 Hand Tools PLT103 15 Lifting equipment-Instruction and Qualifying	PLT111 15 The Basic Injection Molding Process PLT112 15 Machine Basic Components and Functions PLT131 30 The Basic Injection Mold TOTAL: 120	2nd Quarter PLT141 45 Machine Set up Team Project PLT121 45 Machine Operator Training PLT161 30 The Two-stage Machine Controls and Functions TOTAL: 120	3rd Quarter PLT113 30 Introduction and Practice on the Velocity Pressure Transfer Machine PLT151 15 Plastics Types, History, Technical Acronyms, and Material Mixing TOTAL: 120	4th Quarter PLT152 15 Properties of Thermoplastics PLT181 15 Handling and Storage of Regrind Materials PLT182 45 Team Plastics Production Project Part I TOTAL: 120	PLT171 15 Hygroscopic Materials and the Desiccant Dryer PLT163 15 Introduction to Quality Control PLT173 15 Industrial Robotics TOTAL: 120
	1st Quarter PLT201 30 Orientation Plastics Versus Other Materials PLT202 15 Time and Temperature Measurement Tools PLT203 15 Industrial Lift Trucks	PLT211 15 Special Molding Applications PLT212 15 Student Generated Pictorial Outline of Various Machinery Components PLT231 30 Mold Maintenance and Changeover TOTAL: 120	2nd Quarter PLT221 45 The Efficient Machine Operator PLT241 45 Machine Set up Pair Project Training Activity PLT251 15 Crystalline and Amorphous Plastics PLT252 15 Thermoset Materials Advanced Operator Training TOTAL : 120	3rd Quarter PLT261 30 Controlling the four Process Variables PLT262 30 The Root Cause Method of Troubleshooting PLT271 15 The Desiccant Dryer PLT282 45 Paired Plastics Production Project Part I TOTAL: 120	4th Quarter PLT283 45 Paired Plastics Production Project Part II PLT263 15 Q/C Part Testing Methods PLT272 30 The Material Granulator PLT273 30 Sprue Pickers TOTAL: 120	



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YEAR III	<u>1st Quarter</u>	PLT311 15	<u>2nd Quarter</u>	<u>3rd Quarter</u>	<u>4th Quarter</u>	PLT387 15
	PLT301 30 Orientation Factors Involved in Profitable Molding PLT302 15 Molding Tools PLT303 15 Concepts of Hydraulics	Cost Effectiveness of Injection Molding PLT361 15 VPT Process Controls PLT331 30 Elements of Mold Design TOTAL: 120	PLT341 45 Individual Machine Set up Activity PLT351 15 Plastic Additives PLT352 15 Elastomers PLT312 15 Optimizing the VPT Machine Process PLT362 30 Creating a Molding Process TOTAL: 120	PLT371 15 Hygroscopic Material Drying Temperatures and Times PLT382 45 Team Plastics Production Project Part I PLT383 45 Plastics Production Project Part II PLT384 15 The Recycling of Plastic Materials TOTAL: 120	PLT363 30 Alternate Plastic Processing Methods PLT385 15 The Qualities Employers Seek in Employees PLT386 30 Lock out/tag out, MSDS, Right to know laws, Haz-Mat, Sexual Harassment TOTAL: 120	Database of Suggested Processing Information from Plastic Material Manufacturers PLT388 30 An Industry Specific Resume and Effective Job-Interviewing Strategies TOTAL: 120