



Molding 1

Process Start-Up & Replication

Learning Objectives

- 1) Identify injection molding hazards and appropriate personal protective equipment along with machine safeties and how they impact injection molding machine operation.
- 2) Recall the steps of the injection molding cycle, define molding process terminology, and perform molding machine Startup, Purging and Shutdown.
- 3) Identify key components on an injection molding machine.
- 4) Evaluate molding machine preparation and confirm checklist items are complete before molding.
- 5) Recall and define basic plastic material terminology and characteristics; evaluate plastic material preparation and confirm checklist items are complete before molding.
- 6) Recall and define basic mold components and their function; evaluate mold preparation and confirm checklist items are complete before molding.
- 7) Complete Process Startup and replication of an injection molding process using the 'AIM 'Start-Up Checklist Methodology' and match key process sheet variables.
- 8) Identify common injection molding defects and perform basic troubleshooting using checklists to determine possible root cause & corrective action.

REV 20251029

Revision History is available upon request.