



# Process Development Class

## ADVANCED

## Led by Your Industry Expert, Marty Key

Process Development Class is a hands-on, interactive course that allows students to develop an injection molding process from the ground up. Through understanding the Basic Elements and Principal Concepts of the injection molding process, students will build a process capable of repeatedly producing quality parts. The class consists of approximately 80% hands-on training, reinforcing long-term learning and skill set development.

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### Topics covered in the class:

- Safety** - Identify safety concerns, proper PPE selection, and use.
- Material** - Understand how to identify and locate plastic resin processing information and how to use the data to troubleshoot or develop a robust process.
- Controller** - Complete an overview of the machine's controller and function. Understand the controller impact on part quality and production.
- Processing Variables** - Fully comprehend the 4 Fundamental Processing Variables: Temperature, Injection (Flow), Pressure, Cooling
- Machine Assessment** - Perform tests to assess machine performance and capability.
- Documenting the Process** - Know how to properly document each step of the process.
- Process Development** - Using knowledge taught in Elements of Injection Molding, Principal Concepts of Injection Molding and Process Development Classes, students build a robust, decoupled process capable of producing quality plastic parts. Through machine qualifications, material performance evaluation, and understanding of test results, students learn how to create repeatable molding processes based on data. Most importantly, students are capable of building and improving injection molding processes when they return to the company plant floor.