



# Principle Concepts of Injection Molding Class

## INTERMEDIATE

## Led by Your Industry Expert, Marty Key

Principal Concepts of Injection Molding offers advanced skill development for individuals with basic injection molding experience. The course reinforces the information taught in Elements of Injection Molding and develops a deeper understanding of the injection molding process. Hands-on, machine-based training reinforces in-class discussions building long-term skills.

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### Topics covered in the class:

**Safety** – Review safety issues and concerns in the injection molding industry.

**Material** – Examine types of plastic resins and material properties, process parameter selection, and understanding of processing considerations for various types of plastics.

**Controller Review** – Review injection molding machine controls including understanding the purpose and function of each feature and correlation to part quality.

**Machine Components** – Develop a higher level of understanding of features and purpose; review molding machine technology and their impact on processing and manufacturing.

**Mold Components** – Assess designs of injection molds, features, runner systems, and function of each component.

**Machine Assessment** – Investigate basic concepts in assessing a machine's performance. How to perform and understand the relevance of machine testing.

**Process Development** – Gain an understanding of the building blocks needed to develop a repeatable injection molding process.