



Elements of Injection Molding Class INTRODUCTORY

Led by Your Industry Expert, Marty Key

This class is intended for individuals interested in understanding the elements of the injection molding process. Through hands-on and in-class lessons, students will establish a base knowledge of molding machines, molds, plastic resin and processing. Prior injection molding experience is not required.

Topics covered in the class:

Material - Examine types of plastic resins, material properties, and proper resin handling techniques

Machine Controller - Review injection molding machine controls, interface, and function.

Machine Operations - Understand basic machine operations.

Machine Components - Evaluate the components and function of an injection molding machine.

Mold - Inspect components, function, types, and purpose of the mold.

Process - Understand the purpose and function of each step of an injection molding process.

Process Elements

- Fill
- Pressure
- Cooling
- De-Molding

Injection Molding Elements

- Materials
- Molding Machine
- Mold
- Auxiliary Equipment

Basic Instructions of Press Operation

- Injection Unit
- Mold
- Clamp
- Setting Clamp Tonnage
- Trouble Shooting