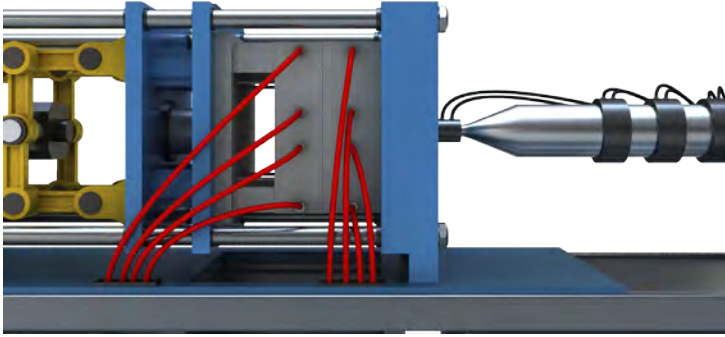


# POLYMERS: INJECTION MOLDING PROCESS

*eLearning courses designed to increase productivity and profits*

## **Learning made Simple, Visual, and Interactive**



Polymers: Injection Molding Process is an informative, intermediate-level course on the injection molding process. In this course, learners are introduced to the stages of the injection molding process, including plastification, injection, and cure and ejection; the methods to optimize each step in the process; as well as the steps required to establish the process. Learners in quality, manufacturing, sales or related, and research and development in the industry will find value in this course.

Credit Hours **1**

## **Learning Objectives**

- Identify and understand the major steps of the injection molding process.
- Recognize the methods to optimize each part in the injection molding process.
- Distinguish between each step required to establish the process.

## **Table of Contents**

### **I. The Injection Molding Process Stages**

- Plastification
- Injection
- Cure and Ejection

### **II. Establishing the Process**

- Step 1: Preparing the Plastic Resin
- Step 2: Pre-Heating the Barrel and Mold
- Step 3: Inputting the Initial Set Points
- Step 4: Loading the Hopper
- Step 5: Purging the Barrel
- Step 6: Starting the Initial Shots
- Step 7: Optimizing the Injection Speed
- Step 8: Performing the Pack Study (Gate Freeze)
- Step 9: Determining the Cure Time
- Step 10: Monitoring the Process

