



This package provides participants with a well-rounded understanding of Scientific Injection Molding. **SmartTech™ Processor Pro** is perfect for die setters, technicians, engineers, supervisors, and managers. This advanced 2-day training is focused on the advanced skills of building, documenting, and troubleshooting a robust Scientific Injection Molding process.

SmartTech™ Training Structure

- Pre-Requisite Online Training
- Face-to-Face Instruction
- Hands-On Skills Development
- Post-Requisite Online Training
- SmartTech™ Processor Pro Completion Exam

Prerequisite Online Training

- Injection Molding Basics
- Understanding Plastics Materials
- Establishing a Scientific Molding Process



Day 1 : Classroom Discussion Topics

- Injection Molding Safety
- Establishing 1st Stage Injection
- Process Inputs vs. Outputs
- Establishing 2nd Stage Packing
- Check Ring Repeatability
- Barrel Purging Concerns

Day 1 : Practical Skill Development

- 1st Stage Injection Speed Determination
- 1st Stage Injection Transfer Optimization
- Maximum 1st Stage Injection Pressure
- Maximum 1st Stage Injection Time
- 1st Stage Check Ring Evaluation
- 1st Stage In-Mold Rheology (optional)



Day 2 : Classroom Discussion Topics

- 5 Rules of Effective Processing
- Understanding Part Cooling
- Understanding Screw Recovery
- Scientific Process Documentation
- Scientific Troubleshooting Techniques

Day 2 : Practical Skill Development

- Mold Temperature Measurement
- 2nd Stage Packing Pressure Optimization
- 2nd Stage Packing Time Optimization
- 2nd Stage Final Cushion Optimization
- 2nd Stage Clamp Force Optimization
- Scientific Melt Temperature Measurement
- Scientific Coolant Temperature Measurement
- Scientific Process Documentation

Post-Requisite Online Training

- Material Drying Technology
- Scientific Troubleshooting for Injection Molders
- Establishing a Scientific Molding Process

Completion Exam

The areas being tested in this exam include:

- Injection Molding Safety
- Scientific Molding
- Scientific Process
- Scientific Purging
- Scientific Documentation



+1 Day Add-on Workshop

This optional 1-day workshop further advances employees' processing skills — directly related to your workplace and equipment.

As a group, the instructor and students spend the first part of the morning discussing strategies for optimizing mold changes.

The instructor and students spend most of the day performing a mold change from start to finish. This includes all steps from Preparation to Dry Cycling, highlighting important steps and concerns along the way.



PRODUCT INFORMATION:

**SmartTech™ Processor Pro:
On-Site Scientific Molding Training**

*2 days of on-site skill development +
12 online courses & completion exam*

product id: **crt.im2**

(978) 957-0700

www.traininteractive.com

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