

# Optimizing Machine Control Settings with SkillBuilder



Paulson's fully interactive training program explains the effects of process control changes on injection molded part properties with full motion video, text, audio and graphic animation.

Increase productivity and reduce rejects through better control of the molding process.

- ◆ Explores the injection molding process with focus on making process improvements
- ◆ Discusses how changing processing conditions affects molded part properties
- ◆ Explains specific rules for controlling the plastic during processing
- ◆ Discusses procedures and explanations for optimizing machine control settings and machine operation
- ◆ Provides thorough overview of injection molding and troubleshooting techniques

**Recommended For:** Machine Operators, Supervisors, Process Technicians, Process Engineers, Set-Up Personnel, Foremen

This program teaches the "hows and whys" of injection molding improvements with specific rules, procedures and explanations for controlling the plastic, optimizing machine control settings, and improving machine operation. Students will learn how to increase productivity and reduce rejects with this course and ultimately have better control of the injection molding process.

## Optimizing Machine Control Settings Lessons

**1**

Lesson

*Lesson 1: Setting Up for an Efficient Molding Run*

Discusses ways to optimize your injection molding operations by examining efficient pre-start, safety and machine control set-up procedures.

**2**

Lesson

*Lesson 2: Optimizing Screw Control Settings*

Describes rules and procedures for setting controls affecting the screw. Controls discussed include back pressure, screw rpm and timers. We'll also describe ways to optimize these screw control settings.

**3**

Lesson

*Lesson 3: Setting the Injection Controls for Maximum Productivity*

Teaches the rules and procedures for setting and maintaining the injection control settings for maximum productivity. Also discusses how changing processing conditions such as fill rate profiles, transfer set points, packing & holding controls, and mold open & closed timers affect molded part properties.

**4**

Lesson

*Lesson 4: Maintaining Peak Efficiency & Solving Process Problems*

Discusses important operating controls to monitor, as well as, the more common processing problems encountered during routine production.

## SkillBuilder Lab Lessons for Optimizing Machine Control Settings

*Optimizing Melt Temperature Molding an Amorphous Material*

*Optimizing Melt Temperature Molding a Crystalline Material*

(cont'd on back)



SkillBuilder Lab Lessons for Optimizing Machine Control Settings *(cont'd)*

*Optimizing Fill Time to Achieve Fastest Fill Possible*

*Optimizing Part Dimensions Molding an Amorphous Material*

*Optimizing Part Dimensions Molding a Crystalline Material*

*Optimizing Part Weight to Achieve Minimum Plastic Usage*

*Optimizing Mold and Melt Temperature to Achieve Most Efficient Cycle Time*

## PAULSON'S INTERACTIVE LEARNING SYSTEM



- ◆ More Effective Training: Get a 40% increase in knowledge retention and comprehension using interactive technology.
- ◆ Scheduling Flexibility: Training is available to all shifts, 24 hours a day without affecting production.
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- ◆ Reduced Training Costs: Train on company time without loss of production. No dedicated instructor, no overtime and no overhead add up to large savings.
- ◆ Increased Motivation: Immediate feedback and personal involvement are key factors in training effectiveness.
- ◆ Complete Curriculum: The interactive library provides a complete career path curriculum for all employees.

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