

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.
- ◆ Automatic Record Keeping: You can test and track employee progress automatically.
- ◆ No Instructor Required: Fully interactive format provides either a self-paced, one-on-one or classroom learning environment.
- ◆ 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.

To sign up for a hands-on-I-T system demonstration in your plant, call 1-800-826-1901.



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