



Scientific Injection Molding SKILLS PORTALS

Cost-effective plastics training & hands-on skills development for small and mid-sized companies

A Scientific Molding Skills Portal from Routsis Training combines foundational eLearning with critical skills-development labs. This in-house training system teaches your production personnel how to develop, document, optimize, and evaluate a robust Scientific Molding process — skills that translate directly into increased productivity and profitability for your company.

32 courses on 1 powerful portal — available in 6 languages

Each Skills Portal comes pre-configured with 6 Scientific Molding 101 courses, 13 Intermediate SkillSet™ Labs, and 13 Advanced SkillSet™ Labs. The online courses and all related hands-on training materials are available in 6 different languages, in any combination — allowing you to train multilingual employees in whatever language is most convenient.



English



Spanish



French



Brazilian Portuguese



Bahasa Malaysia



Mandarin Chinese

Fundamental Courses

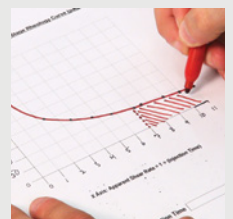
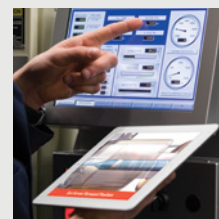
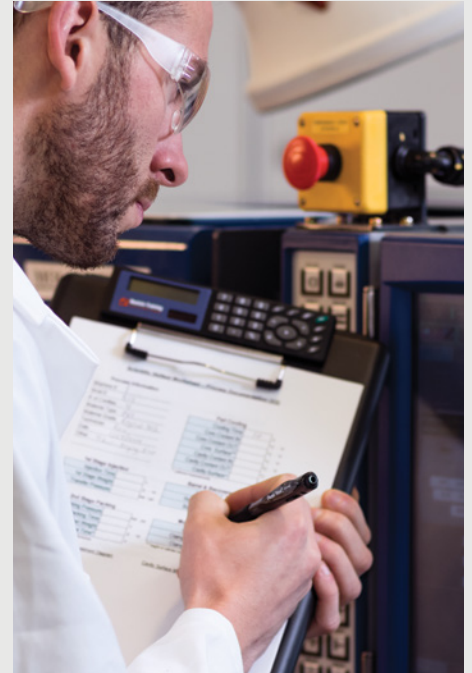
All participants begin with the basics. Our “101” courses establish a consistent knowledgebase while emphasizing safety — using the production terminology and concepts that every employee should learn. These courses ensure all employees are “speaking the same language” on your production floor, irrespective of their experience level.

Intermediate SkillSet™ Labs

These labs provide skills-development instruction & worksheets for documenting and developing of a robust Scientific Molding process — from injection & packing to tonnage & recovery. Your employees acquire these skills the correct way using your machines, molds, and materials.

Advanced SkillSet™ Labs

These labs focus on evaluating & improving a Scientific Molding process. Your top processors learn how to test important aspects of the process; such as viscosity, deflection, and imbalance — as well as how to optimize cooling, screw recovery, and part removal. These skills can be applied immediately to improve existing processes at your facility.



Routsis Training
Hands-on. Online. Ongoing.

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One Training System, Three Learning Tracks

An Introduction to Injection Molding	✓	✓	✓
Injection Molding Basics: Machine	✓	✓	✓
Injection Molding Basics: Process	✓	✓	✓
Injection Molding Basics: Mold	✓	✓	✓
Understanding Plastics Materials	✓	✓	✓
Establishing a Scientific Molding Process	✓	✓	✓
Melt Temperature Measurement		✓	✓
Mold Temperature Measurement		✓	✓
Process Documentation		✓	✓
1st Stage Injection Speed		✓	✓
1st Stage Injection Transfer		✓	✓
1st Stage Injection Pressure		✓	✓
1st Stage Injection Time		✓	✓
1st Stage Check Ring		✓	✓
2nd Stage Packing Pressure		✓	✓
2nd Stage Packing Time		✓	✓
2nd Stage Final Cushion		✓	✓
2nd Stage Clamp Force		✓	✓
Screw Recovery Time		✓	✓
1st Stage Fill Progression			✓
1st Stage Rheology Curve			✓
1st Stage Stage Cavity Imbalance			✓
Coolant Temperature			✓
Cooling Time			✓
Rear Zone Temperature			✓
Mold Opening			✓
Part Ejection			✓
Mold Closing			✓
Mold Protect Force			✓
Comparative Rheology			✓
Measuring Mold Deflection			✓
Measuring Platen Deflection			✓

Fundamental Learning Track

6-12 hours of training time

These courses are geared for non-technical employees, such as material handlers, inspectors, and front office personnel.

- 6 Online Courses and Study Guides
- Scientific Molding 101 Test

Intermediate Track

12-20 hours of training time

Technical employees, such as technicians, setups, processors, and engineers continue past the fundamentals with 13 intermediate hands-on SkillSet™ Labs.

- 6 Online Courses and Study Guides
- Scientific Molding 101 Test
- 13 SkillSet™ Labs and Worksheets

Advanced Track

20-28 hours of training time

Advanced technical employees who require advanced processing skills continue their training with 13 additional SkillSet™ Labs.

- 6 Online Courses and Study Guides
- Scientific Molding 101 Test
- 26 SkillSet™ Labs and Worksheets