

Professional Certification TRAINING PORTALS

for Mold & Part Design

Looking for a reliable, cost-effective way to train and benchmark your employees? Here it is.

A **Professional Certification Portal** delivers essential eLearning to your entire workforce — with skills that translate directly into increased product quality and profitability. Your new “Cert Portal” comes pre-configured with our most effective online training courses.

Fundamental Courses

All participants begin with the basics. Our “101” course grouping establishes your workforce’s knowledgebase while emphasizing safety. These courses cover the equipment and the process — using terminology and concepts that every employee should learn.

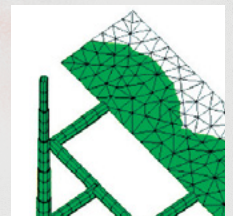
Ideal for getting new hires up to speed quickly, these courses are also a great way to ensure all employees are “speaking the same language” on your production floor, irrespective of their experience level.

Professional Certification

Continuing beyond the fundamentals, the courses in the Professional Certification learning track cover Mold Design, Part Design, Mathematics, and Print Reading — ensuring your technical staff’s competency.

After completing the training, your employees can demonstrate their knowledge by successfully completing the **Injection Mold & Part Design Professional Certification Exam**.

Every Process Engineer, Tool Maker, and Designer in your organization should achieve this certification.



Routsis Training

Hands-on. Online. Ongoing.

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One Training System, Two Learning Tracks

Students are enrolled in one of two tracks, depending on their job title or how much they want to learn.

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	✓	✓
Math for Scientific Molders, Parts 1 & 2		✓
Blueprint Reading: Introduction to Engineering Drawings		✓
Blueprint Reading: Multiview Drawings		✓
Blueprint Reading: Sectional Views		✓
Blueprint Reading: Dimensions and Tolerances, Parts 1 & 2		✓
Blueprint Reading: Part Feature Specifications		✓
Injection Mold Design: Injection Mold Fundamentals		✓
Injection Mold Design: Machining Methods, Parts 1 & 2		✓
Injection Mold Design: 2-Plate, 3-Plate & Hot Runner Molds		✓
Injection Mold Design: Mold Bases, Tool Steels & Heat Treating		✓
Injection Mold Design: External and Internal Actions		✓
Injection Mold Design: Ejection, Venting & Cooling		✓
Injection Mold Design: Part Gating Methods		✓
Injection Mold Design: Runners, Filling & Design Process		✓
Plastic Part Design: Product Development & Prototype Process		✓
Plastic Part Design: Mechanical Behavior of Polymers		✓
Plastic Part Design: Mold Filling, Gating & Weld Lines		✓
Plastic Part Design: Shrinkage, Warpage & Ejection		✓
Plastic Part Design: Mechanical Fasteners, Press & Snap Fits		✓
Plastic Part Design: Welding & Adhesives Bonding Technology		✓
Injection Mold & Part Design: Professional Certification Exam		✓

Fundamental Learning Track

These courses establish a common knowledgebase for all employees.

- 6 Online Courses (6-12 hours)
- Study Guides
- Completion Test

Certification Track

Process Engineers, Tool Makers, & Designers continue past the fundamentals in preparation for their Certification Exam.

- 29 Online Courses (25-50 hours)
- Study Guides
- Certification Exam

