DEVELOPMENT COURSES

SUBJECT-SPECIFIC, FOCUSED

TRAINING SEMINARS

FOR THE PLASTIC INJECTION MOLDING INDUSTRY

American Injection Molding Institute

by Beaumont

WWW.AIM.INSTITUTE

AIM'S DEVELOPMENT COURSES

SUBJECT-SPECIFIC, FOCUSED 2-DAY SEMINARS

AIM'S Development Courses are an excellent resource for professionals seeking focused, subject-specific knowledge over a two-day period. Improve your understanding of the four key disciplines of the injection molding process and how each discipline impacts the final part.

PLASTIC MATERIALS

Better understand material properties and their relationship to the finished part

Course Highlights

- Review common root causes of shrink and warp, and strategies for reducing those issues
- Discussion of the relationships between material properties, including crystallinity and molecular weight, on part performance
- Recognizing pit falls of common part design guidelines and predicting/troubleshooting warp

MOLD DESIGN

Build your foundational knowledge of the 5 key systems of a mold and how each system affects final part quality

Course Highlights

- Hands-on mold tear down and reassembly
- Learn to identify common mold components and systems on mold prints
- Learn important questions to ask during a mold design review process and when troubleshooting a problem mold

INJECTION MOLDING PROCESSING

Learn the fundamentals of injection molding processing and strategies for optimizing process development and troubleshooting

Course Highlights

- Review mold bench test procedures and strategies for process development optimization
- Overview of various methods for identifying ideal fill times and shot sizes
- Review uses of simulation in process development
- Machine and lab demonstrations

PART DESIGN

Improve your ability to design for manufacturability and for performance over a product's life span based on its intended use

Course Highlights

- Review performance traits of plastic materials
- Discussion of the advantages and disadvantages of common part design guidelines
- Understand the relationship between part design, mold complexity, and product cost
- Application exercises: snap fits, press fits, and beams