



# American Injection Molding Institute

## Autodesk® Simulation Moldflow® Insight Fundamentals-Course Overview



### Course Description

In this course, students learn fundamental features, functionalities and workflows in Autodesk Simulation Moldflow Insight Fundamentals - through hands-on exercises. Students learn how to become more efficient at creating digital prototypes, running analyses and interpreting results of most analysis types available in the standard package.

### Course Outline - Autodesk Simulation Moldflow Insight- Fundamentals

**Introduction to Synergy:** Learn how to navigate and use the Interface

**Analysis Workflow:** Discusses Moldflow design philosophy and design procedures

**Model Requirements:** Discuss the mesh characteristics necessary to have for a high quality digital prototype

**Model Translation and Cleanup:** Discuss workflows necessary to import, mesh and repair all 3 mesh types

**Gate Placement:** Gate placement guidelines & uses of the gate location analysis

**Results Interpretation:** Discuss results types along with results manipulation and interpretation

**Gate & Runner Design:** Typical gate and runner designs and how to model them and conduct a runner balance analysis

**Basic Packing:** Review of definitions, procedures to set a packing profile, and how to interpret results

**Flow Analysis Process Settings:** Discussion of advanced options for a flow analysis along with all solvers and capabilities

**Moldflow Communicator:** Review features and capability of Autodesk Simulation Moldflow Communicator

**Guided Project:** Steps through in detail the entire Flow analysis process

**Moldflow Design Principles:** Review of the Moldflow design principles and how to apply them

**Flow Leaders and Deflectors:** Discussion of how to use flow deflectors and flow leaders to move the location of weld lines and other defects

**Using Valve Gates:** Discusses valve gate control methods, and how to set up

**Duration:** 3 days

### Who should attend?

New users of Autodesk Simulation Moldflow Insight

**Prior mold analysis experience is not necessary.**

### What will you learn?

- How to complete fill, pack, and warp analysis
- Evaluate an injection molded part for manufacturability
- How to evaluate your simulation results



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