

**Objective:** The primary objective of this course is to provide students with hands-on exercises of the different features of Autodesk Moldflow Insight Standard. This course is based in injection molding processing.

**Level:**  
Essentials

**Duration:** 3 days  
(24 hrs.)

**Who should attend:** This course is designed for any Autodesk Moldflow Insight user. Course covers features of Standard license.

**Pre-requisites:** Before attending this course, it is recommended that students complete the tutorials and review the 4 pre-theory recordings (which will be provided by the instructor upon registration).

# Autodesk® Moldflow® Insight Fundamentals

Autodesk® Official Training

## Course Description

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

## Course Outline - Autodesk Moldflow Insight Fundamentals

- **Introduction to Synergy:** Learn how to navigate and use the Interface
- **Quick Cool-Fill-Pack-Warp Analysis:** Step through the general process typically used for analysis projects
- **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 digital prototypes for
- **Gate Placement:** Gate placement guidelines & uses of the gate location analysis
- **Molding Window Analysis:** The procedures to follow to complete and interpret a molding window 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
- **Autodesk Moldflow Communicator:** Review features and capability of Autodesk Moldflow Communicator
- **Guided Project:** Steps through in detail the entire Flow analysis process, from cleaning up a mesh, finding a gate location, solving

flow issues, optimizing processing conditions, modeling and sizing the feed system and packing the part

## Appendices:

- **Thermoplastic Overview:** Review polymer definition and classification, key polymer properties, and thermoplastic material families & abbreviations
- **Injection Molding Overview:** Review of the injection molding process
- **Finite Element Overview:** Review of finite elements and mesh types used within Autodesk Moldflow Insight
- **Moldflow Design Principles:** Review of the Moldflow design principles and how to apply them
- **How to Use Help:** Shows how help is accessed and used
- **Creating Reports:** Shows ways to create reports & formats available
- **Modeling Tools:** Concentrates on modeling regions, some work with beams & use of local coordinate systems
- **Material Searching and Comparing:** Shows how to use the material searching capabilities
- **Job Manager:** Review of the job manager features and capabilities
- **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



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