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: 1 day (8 hrs.)

Who should attend: This course is designed for any Autodesk Moldflow Insight user manager and for those hiring contracting firms to complete simulation analysis.

Course Benefits: The benefits for managers to complete this course include the ability to more effectively manage their simulation analysis teams' resources to produce higher quality products while reducing timelines, thus generating significant ROI.

Autodesk® Moldflow® Insight for Managers
Course designed by A-Z Sophisticated Solutions, LLC

Course Description

In this course, managers learn features, functionalities and workflows in Autodesk Moldflow Insight through hands-on exercises. THIS COURSE is based on the Autodesk Moldflow Insight Fundamentals course; however it is not a substitute for that course. This course reveals a high-level management perspective of Autodesk Moldflow Insight software, based on the instructor's discretion.

Recommended: 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).

Course Outline - Autodesk Moldflow Insight for Managers

- **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
- **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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