Autodesk® Moldflow® Insight

Performance Course Overview

Duration:
3 days

Who Should Attend?
Users of Autodesk Moldflow Insight Performance.

Before attending this course, students must attend the course titled Learning Autodesk Moldflow Insight Basic and Autodesk Moldflow Insight - Productivity

What will you learn?

- Setup and run a core deflection analysis
- Setup and run a cooling analysis plus interpret cooling results
- Setup and run a warpage analysis and interpret warpage results
- Techniques for solving warpage problems

To register for upcoming classes Email:
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Course Outline - Autodesk Moldflow Insight - Performance

Core shift analysis: Learn how to prepare for, run and interpret the results of a core shift analysis.

Fiber flow analysis: Learn about a fill and pack analysis for fiber filled materials. Why and when to do a fiber flow analysis.

Cooling overview: An overview of the importance of cooling and review the basic concepts of cooling injection molds.

Cooling analysis modeling requirements: Learn about what can be modeled for cooling and how the mesh quality influences the analysis.

Modeling cooling components: Learn how to model the various features available in a cooling analysis.

Cooling analysis strategies: Learn when and how to use the automatic and specified cooling analysis options.

Cooling optimization: Solve a mold cooling problem by modifying an existing cooling system with your design modifications

Warpage overview: An overview of the causes of warpage and shrinkage models used in the simulation.

Design influences on warpage: Discusses the contributions to warpage with respect to part design, mold design, processing conditions, and materials.

Warpage analysis process: Discusses the procedure for running a warpage analysis and how it is related to cooling, filling, and packing.

Determine the magnitude of warpage: Discusses the procedure for determining how much the part will warp. It discusses the differences between midplane, Dual Domain and 3D meshes.

Determine the cause of warpage: Discusses how to determine if the major cause of warpage is differential cooling, differential shrinkage, orientation effects, or corner effects and how the procedure is dependent on mesh type.

Reducing warpage: Discusses the diagnostic results that can help you understand the causes of warpage and the procedure used to solve warpage problems

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