



American Injection Molding Institute

Autodesk® Moldflow® Insight Advanced Cool & Warp-Course Overview

Course Outline - Autodesk Moldflow Insight- Advanced Cool & Warp

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 Results Interpretation: Learn about the different types of cooling results and how to use them

Cooling Analysis Modeling Requirements: Review the specific model requirements for running a cooling Analysis.

Modeling Cooling Components: Learn the techniques that are required to import or model cooling components.

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/optimizing an existing cooling system.

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

Warpage Analysis Setup: Review options available when running a warpage analysis

Warpage Results Interpretation: Learn about the tools available to customize the warpage plot, to make result interpretation easier.

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.

Buckling: Learn about buckling and how it affects the warpage workflow

Reducing warpage: Review the relationships between the material, processing conditions and part design, and their impact on warpage. Also, techniques to reduce the warpage of a part.

Duration: 3 days

Who should attend?

Users of Autodesk Moldflow Insight

Students must complete the Fundamental courses prior to attending this course.

What will you learn?

- Modeling cooling and review cooling results
- How to determine the magnitude and case of warpage
- Warpage results visualization tools
- Techniques for solving warpage problems



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