

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

Level:
Advanced

Duration: 5 days
(40 hrs.)

Who Should Attend: This course is designed for any advanced Autodesk Moldflow Insight user. Course covers features of the Premium license.

Pre-requisites: Before attending this course, students must attend the courses titled *Autodesk Moldflow Insight Fundamentals* and *Autodesk Moldflow Insight Advanced Flow*.

Autodesk® Moldflow® Insight Advanced Cool and Warp

Autodesk® Official Training

Course Description

In this course, students learn features, functionalities and workflows in Autodesk Moldflow Insight Premium package through hands-on exercises not covered in the Autodesk Moldflow Insight Fundamentals and Autodesk Moldflow Insight Advanced Flow courses.

Course Outline - Autodesk Moldflow Insight Advanced Cool and Warp

- **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 Results Interpretation:** the objectives of a cooling study and how different results can be interpreted
- **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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