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

Course Outline - Autodesk Moldflow Insight- Advanced Cool & 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.

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?
• Setup & run a core deflection analysis, cooling analysis, warpage analysis & interpret the results
• Techniques for solving warpage problems