**Objective**: The primary objective of this study group is to provide attendees with a second chance to review details of the Autodesk Moldflow Insight Adv. Flow and Adv. Cool & Warp courses while they study for their Professional Certification exam.

**Level**: Intermediate

**Duration**: 3 sessions (1 h each)

**Who Should Attend:** Any Autodesk Moldflow Insight user who has taken the three Autodesk Moldflow Insight core courses; and who would like a group to keep them on track with their certification exam preparation.

**Requirements:** Before attending this course, students must attend the courses titled *Autodesk Moldflow Insight Fundamentals*, *Autodesk Moldflow Insight Advanced Flow* and *Autodesk Moldflow Insight Advanced Cool and Warp* courses. Have training materials handy. Different chapters will be reviewed in each session. Attendees participate in 1 hour online meetings every other day.

# Autodesk® Moldflow® Insight Professional Certification Study Group with Ana Maria
## Course designed by A-Z Sophisticated Solutions, LLC

### Course Description
In this study group, Autodesk Moldflow Insight users review key details of each chapter of the complete Autodesk Moldflow Insight Advanced Flow and Advanced Cool & Warp courses. This study group does NOT provide questions and answers you may encounter in the Autodesk Moldflow Professional certification exam. Instead, we will review typical questions/challenges that many Autodesk Moldflow Insight software users may encounter, the length and the topics discussed are based on the instructor's discretion.

### Course Outline - Autodesk Moldflow Insight Professional Certification Study Group with Ana Maria

- **Database Management:** Discusses how to create personal databases of all types and how to use them

- **Family Tools:** Discusses how to analyze family tools including finding processing conditions, adding studies together and balance the runners

- **Multiple Gates:** Discusses the types of multiple gate problems that occur and how to analyze them. Also discusses clamp tonnage and how to work within the limits of the molding machine

- **Packing Optimization:** Discusses the procedure for reducing the variation of volumetric shrinkage on a part

- **Part Insert Overmolding:** Discusses definitions and capabilities with regards to running a flow analysis with part inserts

- **Two-Shot Sequential Overmolding:** Discusses capabilities of two-shot sequential overmolding, setting up the analysis, running the analysis and reviewing results

- **Design of Experiments (DOE) Analysis:** Discusses the theory of DOE & how to setup an analysis and how to interpret the results

- **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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