**Objective**: The primary objective of this study group is to provide attendees with a second chance to review details of the Autodesk Moldflow Insight Fundamentals course while they study for their Associate Certification exam.

**Level**: Essentials

**Duration**: 4 sessions (1 h each)

**Who should attend:** Any Autodesk Moldflow Insight user who has taken the Autodesk Moldflow Insight Fundamentals course; and who would like a group to keep them on track with their certification exam preparation.

**Requirements:** Attendees must have completed the *Autodesk Moldflow Insight Fundamentals* course. 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 Associate 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 Fundamentals course. This study group does NOT provide questions and answers you may encounter in the Autodesk Moldflow Associate 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 Associate Certification Study Group with Ana Maria

- **Introduction to Synergy:** Learn how to navigate and use the Interface
- **Quick Cool-Fill-Pack-Warp Analysis:** Step through the general process typically used for analysis projects
- **Analysis Workflow:** Discusses Moldflow design philosophy and design procedures
- **Model Requirements:** Discuss the mesh characteristics necessary to have for a high quality digital prototype
- **Model Translation and Cleanup:** Discuss workflows necessary to import, mesh and repair all 3 mesh types digital prototypes for
- **Gate Placement:** Gate placement guidelines & uses of the gate location analysis
- **Molding Window Analysis:** The procedures to follow to complete and interpret a molding window analysis
- **Results Interpretation:** Discuss results types along with results manipulation and interpretation
- **Gate & Runner Design:** Typical gate and runner designs and how to model them and conduct a runner balance analysis
- **Basic Packing:** Review of definitions, procedures to set a packing profile, and how to interpret results
- **Flow Analysis Process Settings:** Discussion of advanced options for a flow analysis along with all solvers and capabilities
- **Moldflow Communicator:** Review features and capability of Autodesk Moldflow Communicator
- **Guided Project**: Steps through in detail the entire Flow analysis process, from cleaning up a mesh, finding a gate location, solving flow issues, optimizing processing conditions, modeling and sizing the feed system and packing

**Appendices:**

- **Thermoplastic Overview:** Review polymer definition and classification, key polymer properties, and thermoplastic material families & abbreviations
- **Injection Molding Overview:** Review of the injection molding process
- **Finite Element Overview:** Review of finite elements and mesh types used within Autodesk Moldflow Insight
- **Moldflow Design Principles:** Review of the Moldflow design principles and how to apply them
- **How to Use Help:** Shows how help is accessed and used
- **Creating Reports:** Shows ways to create reports & formats available
- **Modeling Tools:** Concentrates on modeling regions, some work with beams & use of local coordinate systems
- **Material Searching and Comparing:** Shows how to use the material searching capabilities
- **Job Manager:** Review of the job manager features and capabilities
- **Flow Leaders and Deflectors:** Discussion of how to use flow deflectors and flow leaders to move the location of weld lines and other defects
- **Using Valve Gates**: Discusses valve gate control methods, and how to set up

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