

SOLIDWORKS Plastics Standard Course Outline

 DURATION/TIME 1 Days 9:00 am - 5:00 pm	 METHODOLOGY Practical hands-on with using computers, lecturing, discussions and case studies.
 PREREQUISITES Experience with the Windows™ Operating System. Attended SOLIDWORKS Essentials training. Knowledge of plastic material, plastic part design and/or injection mold design	 TARGET Application Engineer, R&D Engineer, Product Designer or Engineer, and Industrial Engineer

INTRODUCTION

The SOLIDWORKS Plastics course teaches you how to use specialized simulation software tools to predict how melted plastic flows during the injection molding process. Predicting how the plastic will flow enables you to predict manufacturing defects such as weld lines, air traps, short shots, and sink marks. By predicting these defects, you can change the part or mold geometry, the processing conditions, or the plastic material itself to eliminate or minimize them, saving energy, material, time, and money.

OBJECTIVE

At the end of this program participants are expected to:

- Able to use SOLIDWORKS Plastics to analyze plastic flow and predict defects that might occur due to injection molding process.

CONTACT

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SOLIDWORKS Plastics Standard

DAY 1

Course Outline:

Lesson 1: Basic Fill Analysis

- Basic Fill Analysis
- Stages in the Process
- New Study
- Injection Process
- Element Types
- Units
- User Interface
- Injection Units
- Material
- Boundary Conditions
- Injection Location
- Create Mesh
- Simulation Type
- Run
- Fill Results

Lesson 2: Detecting a Short Shot

- Detecting Short Shots
- Stages in the Process
- Fill Properties
- Flow Front Central Temperature
- Configurations

Lesson 3: Automation Tools

- Automation Tools
- Stages in the Process
- Duplicate Study
- Plastics File Management
- Batch Manager
- Compare Results
- Summary
- Report

Lesson 4: Injection Locations and Sink Marks

- Injection Locations and Sink Marks
- Stages in the process
- Injection Location Rules
- Predict Fill Pattern
- Injection Location Advisor
- Sink Marks
- Visibility Commands

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DAY 1

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Lesson 5: Materials

- Material Properties
- Stages in the Process
- User-defined Database
- Resin Properties
- Temperature Properties
- Polymer Types
- Thermal Properties
- Rheological Properties
- PVT Data
- Thermo-Mechanical Properties

Lesson 6: Mesh Manipulation

- Mesh Manipulation
- Stages in the Process
- Local Mesh Refinement
- Edit/Review
- Element Issues
- Leader Lines
- Edit Study
- Solid Mesh
- Solid Mesh Size

Lesson 7: Detecting Air Traps

- Detecting Air Traps
- Stages in the Process
- Air Traps
- Venting
- Solver Settings

Lesson 8: Gate Blush

- Gate Blush
- Stages in the Process
- Runner Elements
- Gate Blush
- Birefringence
- Post-Processing Birefringence

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