

### Certified SolidWorks Plastics Professional 1 Day

Description	This course teaches how to use specialised simulation software tools to predict how melted plastic flows during the injection moulding 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 mould geometry, the processing conditions or the plastic material itself to eliminate or minimise them, saving energy, material, time, and money. The SolidWorks Plastics Professional course covers all the features and functions of SolidWorks Plastics Professional (for part designers).
Prerequisites	Certified SolidWorks Essentials – Part & Assembly Modelling and a fundamental knowledge of plastic materials, plastic part design, and/or injection mould design.

<p><b>Introduction</b> Use of Colour</p> <p><b>Lesson 1: Basic Flow Analysis</b> Basic Flow Analysis Stages in the Process Element Types Meshing The Plastics Manager Tree Input Options Gates Running a Flow Analysis Flow Results</p>	<p><b>Lesson 2: Detecting Air Traps</b> Detecting Air Traps Stages in the Process Air Traps Switching Modes for Design Changes Design Changes Parts Created Using Mould Design Tools</p> <p><b>Lesson 3: Detecting Short Shots</b> Detecting Short Shots Stages in the Process Flow Settings Flow Front Central Temperature</p>	<p><b>Lesson 4: The Model Manager</b> The Model Manager Stages in the Process Using the Model Manager Copying Parts and Results Batch Manager Summary and Report</p>
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### Certified SolidWorks Plastics Premium 1 Day

Description	The SolidWorks Plastics Premium course covers all the features and functions of SolidWorks Plastics Premium (for mould designers).
Prerequisites	Certified SolidWorks Plastics Professional and a fundamental knowledge of plastic materials, plastic part design, and/or injection mould design.

<p>Introduction About This Course Use of Colour</p> <p><b>Lesson 5: Gate Locations and Sink Marks</b> Gate Locations and Sink Marks Stages in the Process Gate Selection Rules Sink Marks</p> <p><b>Lesson 6: Multiple Cavity Moulds</b> Multiple Cavity Moulds Stages in the Process Mirroring Cavities Sketching Runners Runner Design X-Y Plots</p>	<p><b>Lesson 7: Runner-Balancing</b> Runner-Balancing Stages in the Process Local Refinement of Mesh Using Runner-Balancing</p> <p><b>Lesson 8: Gate Freeze</b> Gate Freeze Stages in the Process Solid Mesh Pack Settings Flow and Pack Analysis Pack Results</p>	<p><b>Lesson 9: Optimizing Cooling Time</b> Optimizing Cooling Time Stages in the Process Multiple Gates</p> <p><b>Lesson 10: Using Inserts</b> Using Inserts Stages in the Process Cavities and Inserts Materials for Inserts</p> <p><b>Lesson 11: Mesh Repairs</b> Mesh Repairs Stages in the Process Element Issues Edit Mesh</p>
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