

Course Outline

SOLIDWORKS Flow Simulation	
Description	Designed for users who would like to become productive faster, this introductory course offers hands-on training on the use of SOLIDWORKS Flow Simulation.
Prerequisites	Equivalent or in addition to SOLIDWORKS Essentials
Duration	3 days
Delivery Mode	Face to Face OR Online

<p>Introduction</p> <p>Lesson 1: Creating a SolidWorks Flow Simulation Project Objectives Case Study: Manifold Assembly Problem Description Model Preparation Post processing Discussion Summary</p> <p>Lesson 2: Meshing Objectives Case Study: Chemistry Hood Project Description Computational Mesh Basic Mesh Initial Mesh Geometry Resolution Optimise Thin Wall Resolution Result Resolution/Level of Initial Mesh</p> <p>Lesson 3: Thermal Analysis Objectives Case Study: Electronics Enclosure Project Description Fans Perforated plates Discussion Summary</p> <p>Lesson 4: External Transient Analysis</p>	<p>Lesson 5: Conjugate Heat Transfer Objectives Case Study: Heated Cold Plate Project Description Conjugate Heat Transfer Real Gases Summary</p> <p>Lesson 6: EFD Zooming Objectives Case Study: Electronics Enclosure Project Description EFD Zooming Summary</p> <p>Lesson 7: Porous Media Objectives Case Study: Catalytic Converter Problem Description Porous Media Design Modification Discussion Summary</p> <p>Lesson 8: Rotating Reference Frames Objectives Rotating Reference Frame Case Study: Fan Assembly Problem Description Summary</p> <p>Lesson 9: Parametric Analysis Objectives Case Study: Piston Valve</p>	<p>Lesson 10: Cavitation Objectives Case Study: Cone Valve Problem Description Cavitation Discussion Summary</p> <p>Lesson 11: Relative Humidity Objectives Relative Humidity Case Study: Cook House Problem Description Summary</p> <p>Lesson 12: Particle Trajectory Objectives Case Study: Hurricane Generator Problem Description Particle Trajectories – Overview Summary</p> <p>Lesson 13: Supersonic Flow Objectives Supersonic Flow Case Study: Conical Bell Problem Description Discussion Summary</p> <p>Lesson 14: FEA Load Transfer Objectives Case Study: Billboard Problem Description Summary</p>
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<p>Objectives Case Study: Flow Around a Cylinder Problem Description Reynolds number External Flow Transient Flow Turbulence Intensity Solution Adaptive Mesh Refinement Two Dimensional Flow Computational Domain Calculation Control Options Time Animation Discussion Summary</p>	<p>Problem Description Parametric Analysis Steady State Analysis Summary</p>	
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