

SolidWorks Flow Simulation– 2 Days

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	Certified SolidWorks Essentials – Part & Assembly Modelling, SolidWorks Simulation Essentials

<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 Result Resolution/Level of Initial Control Planes Summary</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 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>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 Part 1: Averaging Case Study: Table Fan Problem Description Noise Prediction Part 2: Sliding Mesh Case Study: Blower Fan Problem Description Tangential Faces of Rotors Time Step Summary</p> <p>Lesson 9: Parametric Study Objectives Case Study: Piston Valve Problem Description Parametric Analysis Steady State Analysis Part 1: Goal Optimization Part 2: Design Scenario Part 2: Multi parameter Optimization Summary</p>	<p>Lesson 10: Free Surface: Objectives Case Study: Dam-Break Flow Problem Description Free Surface Experimental Data Summary References</p> <p>Lesson 11: Cavitation Objectives Case Study: Cone Valve Problem Description Cavitation Discussion Summary</p> <p>Lesson 12: Relative Humidity Objectives Relative Humidity Case Study: Cook House Problem Description Summary</p> <p>Lesson 13: Particle Trajectory Objectives Case Study: Hurricane Generator Problem Description Particle Trajectories – Overview Summary</p> <p>Lesson 14: Supersonic Flow Objectives Supersonic Flow Case Study: Conical Body Problem Description Discussion Summary</p> <p>Lesson 15: FEA Load Transfer Objectives Case Study: Billboard Problem Description Summary</p>
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To Book call: 1300 SWX CAD (1300 799 223)

