



## SolidWorks Flow Simulation

Prerequisites	Length	Description
Some experience using SolidWorks.	3 Days	Designed for users who would like to become productive faster, this introductory course offers hands-on training on the use of SolidWorks Flow Simulation.

### Basics of Fluid Flow

- Fluid Flow Definitions
- Governing Equations
- Meshing Principles
- Monitoring Convergence

### Running

- Meshing Concerns
- Modeling Concerns
- Applying Boundary Conditions
- Post-Processing (Vectors, Contours, Iso-lines, Particle Tracking)
- Global Data (Mass/Energy Balance, Bulk Values etc.)
- Analysis Types
- Steady State
- Transient
- Conjugate Heat Transfer
- Open/Closed Systems

### Flow Features

- Compressible & Incompressible
- Newtonian/Non-Newtonian Fluid
- Fan Curves
- Particle Trajectories
- Supersonic Flows
- Cavitation
- Relative Humidity
- Conjugate Heat Transfer

### Advanced Features within SolidWorks Flow Simulation

- Manual Mesh Control
- Manual Convergence
- Export of Results to SolidWorks Simulation Modules (Stress Analysis)