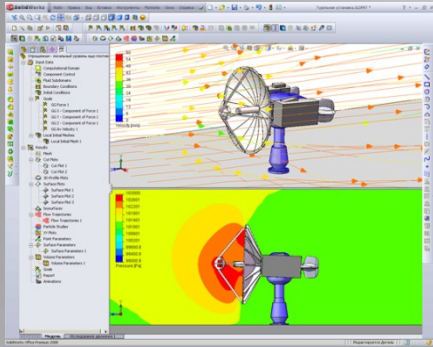


# SolidWorks Flow Simulation Information



This course offers hands-on training on the use of SolidWorks Flow Simulation. The 2 day course will provide an in-depth session on the basics of fluid flow analysis, in addition to covering meshing concerns, modeling concerns, analysis, post-processing, available options and preferences.

Course Length: 2 days  
Hours: 8:30am – 4:30pm

Prerequisite:

- Experience using SolidWorks

Includes:

- Color Training Manual
- Completion Certificate

## Course Contents:

- 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 and 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 modulus (stress analysis)



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