

**Atlanta, GA**

866-964-2652 Toll Free  
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866-461-0652 Fax

**Dallas, TX**

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972-550-1653 Fax

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**Huntsville, AL**

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**Jackson, MS**

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601-353-0337 Fax

**New Orleans, LA**

866-364-2652 Toll Free  
504-525-1651 Fax

**Orlando, FL**

866-966-1652 Toll Free  
866-966-1651 Fax

**Stillwater, OK**

866-364-4652 Toll Free  
405-742-4653 Fax

**Length:** 2 days

**Prerequisites:** SolidWorks Essentials. Knowledge of basic fluid dynamics concepts is recommended.

**Who should attend:** This training program provides 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.

**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. It provides 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.

**TOPICS COVERED:**

**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, et cetera)
- 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)