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Ft Worth, TX

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Houston, TX

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713-682-7541 Fax

Huntsville, AL

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Jackson, MS

866-601-2652 Toll Free
601-353-0337 Fax

New Orleans, LA

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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: 1 day

Prerequisites: Must have attended SolidWorks Essentials. Knowledge of basic mechanical engineering concepts is recommended.

Who should attend: This course has been designed for new SolidWorks Motion users who would like to learn to perform motion analysis on their designs. The course provides an in-depth session on the basics of building, simulating and refining a mechanical design system.

Description: Designed for users who would like to become productive quickly in using SolidWorks Motion. This 1 day course will teach you how to use the SolidWorks Motion simulation package to study the kinematics and dynamic behavior of your SolidWorks assembly models.

TOPICS COVERED:

Basics

- Introduction to user interface
- Constraint mapping concepts
- Action only forces and moments
- Action/Reaction forces and moments
- Motion drivers
- Building models for kinematic analysis
- Create displacement, velocity, acceleration and force graphics
- Translatory and torsional springs
- Translatory and torsional dampers
- 3D Contact to simulate realistic interaction between parts
- Impact forces
- Using Function builder and Expressions to build complex motions and forces
- Flexible connectors - Bushings

Advanced topics

- Kinematic and Dynamic analysis
- Redundancies - Importance and how to avoid them
- Export of results to SolidWorks Simulation (stress analysis)