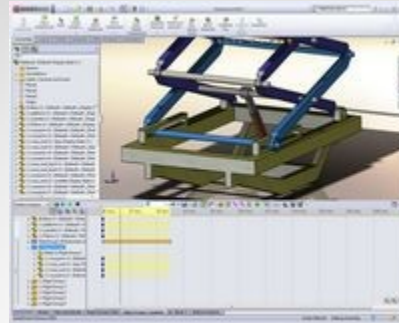


# SolidWorks Motion Course Information

This course is designed for users who would like to become productive quickly in using SolidWorks Motion. The course provides an in-depth session on the basics of building, simulating and refining a mechanical design system.

Users will learn how to use the SolidWorks Motion Simulation package to study the kinematics and dynamic behavior of your SolidWorks assembly models.



Course Length: 1 day  
Hours: 8:30am – 4:30pm

#### Prerequisite:

- Knowledge of SolidWorks + the MotionManager is required
- Knowledge of basic mechanical engineering concepts in recommended

#### Includes:

- Color Training Manual
- Completion Certificate

#### Course Contents:

- Introduction to the user interface
- Constraint mapping concepts
- Action only 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
- Kinematic and Dynamic analysis
- Redundancies – Importance and how to avoid/solve them
- Export of results to SolidWorks Simulation (stress analysis)



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