Course Duration: 2 days

Designed for users who would like to become productive quickly in using SolidWorks Motion. This 2 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.

Prerequisites: Knowledge of SolidWorks and the basics of the MotionManager is required. If you are not familiar with the basics of the MotionManager, the class manager will send you a self-paced lesson that should be completed before class begins. 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.

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/solve them
- Export of results to SolidWorks Simulation (stress analysis)

Contact Details

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