SolidWorks Simulation Dynamics

Prerequisites	Length	Description
Attended the basic SolidWorks Simulation class, or equivalent. Knowledge of SolidWorks	2 Days	This course is targeted for users who would like to become productive in analyzing structures subjected to various types of dynamic loading. The material covered includes the time dependent analysis, harmonic analysis and random vibration analysis, response spectrum analysis, and introduction to nonlinear dynamics simulation.

Analyses Covered

- Modal time history analysis
- Steady-state harmonic analysis
- Random vibration
- Response spectrum analysis
- Introduction to nonlinear dynamic simulation

Damping

- Rayleigh damping
- Modal damping
- Composite damping

Excitation

- Load vs. time data for nodal forces, pressure loads
- Uniform and non-uniform base excitations in the time or frequency domain for displacement, velocity and acceleration
- Harmonic excitation for nodal forces, pressure loads, uniform and non-uniform ground motions and varied phase angles
- Power spectral density (PSD) excitation curves for nodal forces, pressure loads, uniform and non-uniform ground motions
- Response spectrum analysis (SRS and VRS) excitation for uniform base motion

Did You Know?

- CAD MicroSolutions keeps class sizes small (8 or less) to ensure that each student receives personal attention.
- A professionally catered lunch is provided each day.
- Our instructors have the highest level of certifications attainable.
- Our professional training facility is outfitted with optimized Dell and Boxx Workstations with 3DConnexion 3D Controllers.
- All attendees that successfully complete the course receive an official course certificate from *Dassault Systemes SolidWorks Corporation* recognizing their achievement.

The CAD MicroSolutions Difference:
Certified Training That Delivers Peak Performance