

Course Options

Introduction to SolidWorks Simulation

For those designers and engineers new to analysis or have not used it before, we recommend a one day workshop introduction to analysis with SolidWorks Simulation. The course looks at refreshing the skills, knowledge and considerations needed to conduct an accurate analysis.

SolidWorks Simulation

This course is designed to make SolidWorks users productive more quickly with the SolidWorks Simulation software included as part of SolidWorks Premium. It offers a comprehensive hands-on training on the applications of SolidWorks Simulation. The class discusses linear stress analysis, gap/contact analysis, and best practices. All SolidWorks Simulation users wishing to create better designs in SolidWorks by performing analysis and evaluating the behavior of their parts and assemblies in production conditions.

SolidWorks Simulation Professional

This course is designed to make SolidWorks users productive more quickly with the SolidWorks Simulation analysis package. It offers a comprehensive hands-on training on the applications of SolidWorks Simulation. The training class provides an in-depth coverage on the basics of Finite Element analysis, covering the entire process from meshing to evaluation of results for parts and assemblies. It discusses linear stress analysis, heat transfer analysis, frequency analysis, and stability analysis based on linear buckling concepts. Examples of parts and assemblies including those with various gap/contact conditions are reviewed.

SolidWorks Simulation Premium (non-linear)

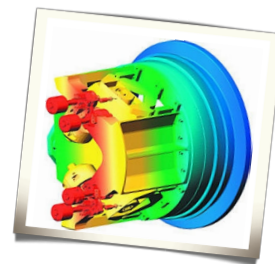
This course will raise your SolidWorks Simulation skills. It offers hands-on experience on the use of SolidWorks Simulation Premium nonlinear module. The 2-day course provides an overview on a wide range of nonlinear structural/mechanical analysis topics. You will learn how to deal with models that exhibit large displacements and/or yielding, discuss and practice the use of many material models available in SolidWorks Simulation and, most importantly, how to drive a non-linear analysis to successful completion.

SolidWorks Flow Simulation

Designed for engineers who are not specialists in computational fluid dynamics (CFD), SolidWorks Flow Simulation redefines fluid flow analysis with robust capabilities normally found in high-end CFD Programs. This two-day, hands-on training program provides an in-depth session on the basics of turbulent fluid flow analysis, in addition to covering meshing concerns, modeling concerns, analysis, post-processing, available options and preferences.

'Introduction to SolidWorks Simulation' and 'SolidWorks Simulation' will enable you to leverage the simulation tools included in SolidWorks Premium to:

- study interactions of assembly components
- simulate the impact of pressures, forces and loads upon welded structures
- verify dimensioning and tolerancing with TolAnalyst
- size motors, determine power consumption, understand gear drives and determine how contacting paths behave



The 'SolidWorks Simulation Professional' training course will enable you to simulate real-world operating conditions to reduce the need for physical prototypes:

- compare and optimise alternatives to find the best design option
- simulate drop tests and impacts involving different heights, surfaces and orientations
- predict buckling or collapses under forces, pressure, gravity and centrifugal forces
- carry out thermal analysis to study heat effects on designs

The 'SolidWorks Simulation Premium' training course will enable you to leverage the advanced validation tools to:

- study the performance of designs for excessive deflections and stresses under dynamic loads
- perform non-linear analysis, including impacts, on plastics, rubbers, polymers, and foam
- conduct contact analysis with non-linear materials
- evaluate the behaviour of composite materials

The 'SolidWorks Flow Simulation' training course will enable you to fully leverage the fluid-flow simulation and thermal analysis capabilities in SolidWorks Flow Simulation:

- carry out internal flow analysis of liquids and gases through valves, regulators and ducts
- analyse heat transfer between surfaces
- understand complex rotational flows inside turbo machinery
- simulate unsteady flows over time in transient flow analysis