Course : Solid Edge Simulation

Duration : 2 days

Version : ST6

At course completion

Students will have learned how to prepare their models for some type of finite element analysis. They will know how to input boundary conditions for static linear stress, normal vibratory modes, buckling and steady state heat transfer. The course will cover best practices for verifying the data and correcting errors. Finally, students will be exposed to the post-processing capabilities inside Solid Edge.

Prerequisites

- General knowledge of Solid Edge ST2 or more recent version (CAD commands)
- Mechanical design experience

Course content

- Lecture by the instructor supported by demonstrations and powerpoint presentations
- Activities using the Designfusion activities booklet

Topics

Day 1

1- Spectrum of application for the SE Simulation module
2- Study steps, interface and file management
3- Studied bodies and meshing
4- Common loads, constraints and connectors
5- Basic viewing and post-processing tools
6- Study options
7- Reports
8- Advanced meshing
9- Idealizing the studied model
10- Combined bodies
11- Best practices
12- Advantage of synchronous modelling

Day 2

13- Advanced Post-processing
14- Advanced connectors
15- Associated body, simulation geometry and property override

16- Frame study
17- Thermal study
18- Optimization