

**Simulation Premium: Dynamic Analysis – 2 days**

Description	This course covers time dependent analysis (force loads as well as motion shock loading examples), harmonic analysis and random vibration analysis (MILS-STD-810F example is Included), response spectrum analysis, and introduction to nonlinear dynamics simulation.
Prerequisites	Certified SolidWorks Simulation

<p><b>Introduction</b> What is SolidWorks Simulation</p> <p><b>Lesson 1: Vibration of a Pipe</b> Objectives Problem Description Static Analysis Frequency Analysis Dynamic Analysis (Slow Force) Discussion Dynamic Analysis (Fast Force) Summary Questions</p> <p><b>Lesson 2: Transient Shock Analysis According to MILS-STD-810F</b> Objectives Problem Description Model with Remote Mass Summary</p>	<p><b>Lesson 3: Harmonic Analysis of a Bracket</b> Objectives Project Description Harmonic Analysis of a Bracket Summary</p> <p><b>Lesson 4: Response Spectrum Analysis</b> Objectives Response Spectrum Analysis Response Spectrum Project description Summary</p>	<p><b>Lesson 5: Random Vibration Analysis According to MIL-STD-810F</b> Objectives Project Description Summary References</p> <p><b>Lesson 6: Nonlinear Dynamic Analysis of an Electronic Enclosure</b> Objectives Project Description Linear Dynamic Analysis Nonlinear Dynamic Analysis Summary</p>
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**Simulation Premium: Composite Analysis – 1/2 day**

Description	This course will teach the importance of composite lamina in engineering, analyse a multi-directional composite laminate and understand the post-processing options available when evaluating the strength of composite materials.
Prerequisites	Certified SolidWorks Simulation

<p>Introduction to Composites Objectives Composite Materials Composite Lamina Composite Laminate</p>	<p>SolidWorks Simulation Premium: Composites Case Study: Mountain board Project Description Lamina Properties Composite Options</p>	<p>Composite Orientation Offset Composite Post-processing Summary</p>
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