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Course Outline

SOLIDWORKS Simulation Premium Dynamics			
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	SOLIDWORKS Simulation Course or experience with SOLIDWORKS + working basic knowledge of finite elements and of basic mechanical principles. The knowledge of basic principles in Vibrations is strongly recommended, but not required.		
Duration	2 days		
Delivery Mode	Face to Face OR Online		

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

