



# SOLIDWORKS Simulation Premium: Dynamics

**Length: 2 Days**

**Prerequisite:** SOLIDWORKS Simulation

**Description:** SOLIDWORKS Simulation Premium Dynamics is targeted for the users who would like to become more productive in analyzing structures subjected to various types of dynamic loading. The material covered includes the time dependent analysis (for loads as well as motion shock loading examples), harmonic analysis and random vibration analysis.

## Course Syllabus

### **Introduction**

- About This Course
- More SOLIDWORKS Training Resources
- What is SOLIDWORKS Simulation?

### **Lesson 1 – Vibration of a Pipe**

- Objectives
- Problem Description
- Static Analysis
- Frequency Analysis
- Dynamic Analysis (Slow Force)
- Discussion
- Dynamic Analysis (Fast Force)
- Summary
- Questions

### **Lesson 2 – Transient Shock Analysis According to MILS-STD-810G**

- Objectives
- Problem Description
- Model with Remote Mass
- Summary
- Questions

### **Lesson 3 - Harmonic Analysis of a Bracket**

- Objectives
- Project Description
- Harmonic Analysis of a Bracket
- Summary
- Questions

### **Lesson 4 - Response Spectrum Analysis**

- Objectives
- Project Description
- Response Spectrum Analysis
- Response Spectrum
- Project Description
- Summary
- Questions

### **Lesson 5 - Random Vibration Analysis According to MIL-STD-810G**

- Objectives
- Project Description
- Summary
- References
- Questions

### **Lesson 6 - Random Vibration Fatigue**

- Objective
- Project Description
- Summary

### **Lesson 7 - Nonlinear Dynamic Analysis of an Electronic Enclosure**

- Objectives
- Project Description
- Linear Dynamics Analysis
- Nonlinear Dynamic Analysis
- Summary
- Questions





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CADIMENSIONS TRAINING CATALOG

