

# SOLIDWORKS ADVANCED SIMULATION TRAINING COURSE

## SOLIDWORKS ADV SIMULATION TRAINING INCLUDES:

### 5 DAY TRAINING COURSE

#### SOLIDWORKS SIM PROFESSIONAL (DAY 1)

- ✚ Frequency Analysis of Parts
- ✚ Frequency Analysis of Assemblies
- ✚ Buckling Analysis
- ✚ Load Cases
- ✚ Submodeling
- ✚ Topology Analysis
- ✚ Thermal Analysis
- ✚ Thermal Analysis with Radiation
- ✚ Advanced ThermalStress2D Simplification
- ✚ Fatigue Analysis
- ✚ Variable Amplitude Fatigue
- ✚ Drop Test Analysis
- ✚ Optimizations Analysis
- ✚ Pressure Vessel Analysis

#### SOLIDWORKS SIM PREMIUM: NONLINEAR (DAY 2-3)

- ✚ Introduction to Nonlinear Structural Analysis
- ✚ Geometric Nonlinear Analysis
- ✚ Material Models and Constitutive Relations
- ✚ Numerical Procedures for Nonlinear FEA
- ✚ Contact Analysis
- ✚ Large Displacement Analysis
- ✚ Incremental Control Techniques
- ✚ Nonlinear Static Buckling Analysis
- ✚ Plastic Deformation
- ✚ Hardening Rules
- ✚ Analysis of Elastomers
- ✚ Nonlinear Contact Analysis
- ✚ Metal Forming

#### SOLIDWORKS SIM PREMIUM: DYNAMICS (DAY 4-5)

- ✚ Vibration of a Pipe
- ✚ Transient Shock Analysis According to MILS-STD-810G
- ✚ Harmonic Analysis of a Bracket
- ✚ Response Spectrum Analysis
- ✚ Random Vibration Analysis According to MIL-STD-810G
- ✚ Random Vibration Fatigue
- ✚ Nonlinear Dynamic Analysis of an Electronic Enclosure