



*Transferring Technology...*

# SOLIDWORKS Motion

**COURSE**

**CERTIFIED**  
Training & Support  
Provider

 **SOLIDWORKS**



**Contact us:**

**+918925876123**

**COURSE DESCRIPTION** : SolidWorks Motion

**COURSE DURATION** :15 hrs.

## SYLLABUS

### Module 1: Introduction to SolidWorks Motion

- What is SolidWorks Motion?
- What is Motion Simulation?
- Understanding Basics
- Mass and Inertia
- Degrees-of- Freedom
- Constraining Degrees-of- Freedom
- Basics of Mechanism Setup in SOLIDWORKS Motion
- Rigid Body motion

### Module 2: Introduction Motion Simulation

- Objectives
- Motion manager
- Basics of Motion Analysis
- Motion with motor
- Motor input and force input type
- Gravity
- Forces and understanding forces.
- Results and plot

### Module 3: Building a Motion Model

- Preparing 3D CAD model
- Interference detection
- Motion study mates
- Simulation with motor, force and gravity
- Running motion analysis
- Motion study plots
- Plotting results
- Validating results

### Module 4: Contacts, Springs, and Dampers

- Component contact
- Analysis with Friction
- Translational Spring
- Magnitude of spring force
- Translational Damper
- Plotting results

### Certificate:

On successful completion of the course and evaluation, the Certificate will be issued by aCADemix.

## OTHER COURSES

### **SolidWorks 3D CAD**

- SolidWorks-Basics
- SolidWorks-Advanced
- SolidWorks- Mold Design
- SolidWorks- Routing
- SolidWorks-Composer
- SolidWorks-MBD

### **SolidWorks Simulation**

- SW Simulation-Fatigue FEA
- SW Simulation-Drop Test FEA
- SW Simulation-Dynamic FEA
- SolidWorks Simulation Advanced
- SolidWorks Plastics

### **SolidWorks Flow Simulation**

- SolidWorks Flow Simulation

### **Design For Quality (DFQ)**

- GD&T-Introduction
- GD&T-Advanced
- Tolerance Stack-Up Analysis
- DFMEA

### **SolidWorks Automation**

- SolidWorks API - Basics
- SolidWorks API - Advanced

### **SolidWorks PDM**

- SolidWorks PDM- User
- SolidWorks PDM - Admin

### **SolidWorks PDM Automation**

- SolidWorks PDM- Automation

### **Abaqus CAE**

- Abaqus CAE - Linear Static Analysis