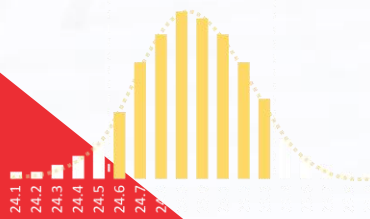
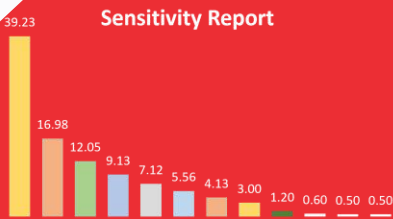
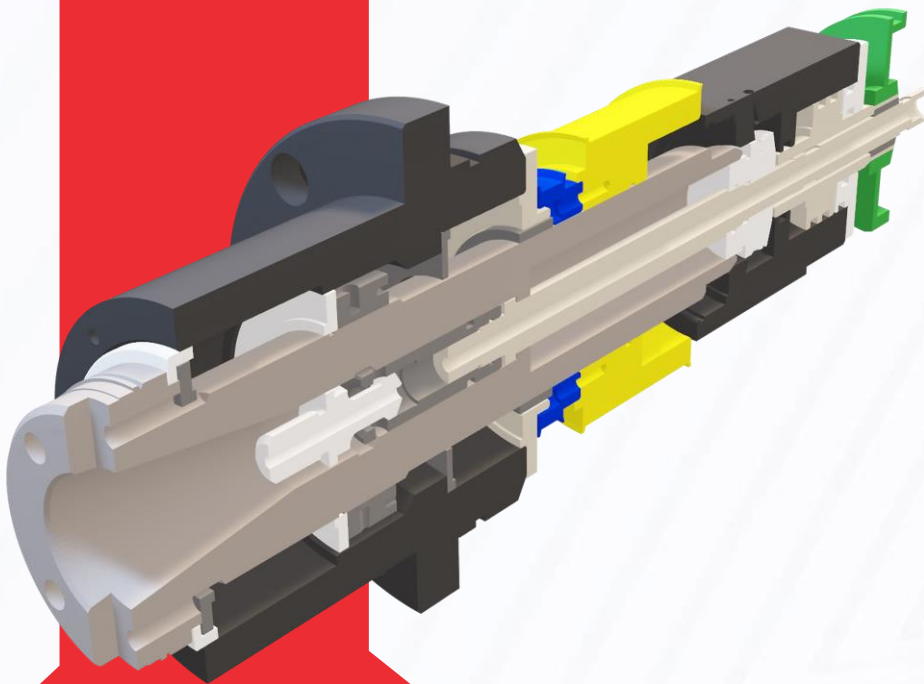




*Transferring Technology...*

# Tolerance Stack-up Analysis

**COURSE**



**Contact us:**

**+918925876123**

**COURSE DESCRIPTION** : Tolerance Stack-up Analysis

**COURSE DURATION** : 10 hrs.

## SYLLABUS

### Module 1: Introduction

- Definition of Tolerance
- Accuracy Precision
- Types of dimensioning
- Types of tolerancing
- Variation - Definition and sources
- Conversion of dimensions to Equal Bilateral form.
- Introduction to the tolerance stack-up analysis process
- Why Tolerance Stack-up analysis
- Types of Tolerance Stack-up analysis
- Steps in Tolerance Stack-up analysis.
- Identifying the build objective.
- Vector Loop Derivation - Guidelines

### Module 2: Methods of Tolerance Analysis

- Methods of Tolerance Analysis
- Worst Case method (WC)
- RSS - Root Square Sum method
- MRSS - Modified Root Square Sum method
- PCRSS - Process Centered Root Square Sum method
- Monte Carlo Simulation
- Sensitivity Identification.

### Module 3: Process Capability

- Process Capability (Cp & Cpk)
- Tolerance Calculation using Process Capability
- GD&T Overview
- Material Modifiers and their effect on stack-up
- Assembly Shift Calculation
- Datum Shift Calculation.
- Examples and Exercises

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

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

- GD&T-Introduction
- GD&T-Advanced
- 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