



Autodesk Inventor Simulation

2 Day Course

Who Should Attend?

This course is aimed at experienced Autodesk Inventor users.

Users should have completed an Autodesk Inventor for New Users course and have a working knowledge of complex assembly design using Autodesk Inventor, mechanical engineering or engineering analysis principles. It is also recommended that delegates have a working knowledge of Microsoft Windows.

Objectives

The primary objective of this course is to introduce users to the user interface, tools and recommended workflows in the Autodesk Inventor Professional Dynamic Simulation and Stress Analysis environments. Hands-on exercises representing real-world, industry-specific design scenarios are included.

After completing this course delegates will be able to:

- Validate digital prototypes by creating dynamic simulations of mechanisms using joints and environmental constraints
- Eliminate redundancies in a design
- Interpret Dynamic Simulation results
- Analyse parts and assemblies and perform parametric design studies
- Practice solving real-world design problems

Agenda

Note: We normally train on the latest version.

During the course delegates will cover:

Agenda Topics:

Introduction to Engineering Analysis

- Stress Analysis Overview
- Dynamic Simulation Overview

Stress Analysis

- Preparing and Running a Simulation
- Viewing Results
- Analysing Assemblies Performing a Parametric Design Study Mesh Control and Convergence Performing a Modal Analysis

Dynamic Simulation

- Creating Joints
- Defining Loads and Joint Properties Running Simulations and Analysing Results Building Nonredundant Models Sharing Dynamic Simulation Results with Stress Analysis

Engineering Problems and Solutions

- Solving Design Problems

The above may be varied to suit client's preferences and requirements.

Qualifications

On completion of the course you will be presented with an Autodesk Authorised Training Certificate.



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