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Professional Development Courses with Quadra Solutions

Autodesk Inventor Dynamic Simulation

Ensure you get the most from your software with our Personal Development Courses. We're an accredited Autodesk training provider and all of our courses are delivered by experienced, specialist trainers. Our courses are designed to support your training needs and get results.

Course Description

This course will cover the basic and advanced functionality of dynamic simulation. After a thorough introduction of the simulation workflow and user interface of dynamic simulation the course will mainly focus on solving actual design problems. These design problems are from existing inventor simulation customers, and are universal, thus allowing the delegates to apply the knowledge quickly to own design problems with confidence.

Who is this course for?

This course is designed for experienced Autodesk Inventor users.

Objectives

This course instructs delegates in the best usage approaches through a hands-on, practice-intensive curriculum. Students acquire the knowledge needed to complete thorough evaluation of product performance in 3D. The course includes An Overview Dynamic Simulation Process, workflow, user interface and the creation of joints. Dynamic Simulation provides animation, kinematics evaluation of paths and positions and dynamic analysis to review timing and determine forces.

Pre-requisites

Delegates should have completed the Autodesk Inventor Essentials course and have a working knowledge of complex assembly design using Autodesk Inventor.

Duration

One day

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Training Course Outline

Day 1

- Create joints
- Define loads and joint properties
- Calculate the driving torque of an assembly
- Create a non-redundant model
- Simulate and analyse a lever mechanism
- Navigate the Dynamic Simulation Environment
- Create joints
- Create bodies
- Create forces and torques
- Create traces
- Dynamic part motion
- Using the output grapher
- Create AVI animation
- Detect collision during operation
- Export dynamic simulation results to FEA.

Training Services

Ensure you get the most from your software with our training & technical support services. We're accredited to provide Autodesk training and our experienced technical team are able to tailor training to the needs of delegates. Training can be delivered at both our Accredited Training Centre in Lancashire or at a venue of your choice.

Booking your Professional Development Course

For more details on booking your Autodesk Professional Development Course contact us now on 01254 301 888 or email training@quadrasol.co.uk. For the full list of training courses, services and products we provide please go to www.quadrasol.co.uk for more information.

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