Introduction to Mechanism Simulation (MDO)

Training Course Description

1 day course

Summary

In this course, you will focus on learning advanced modeling and analysis skills. Topics will include developing the 3-D model, analyzing the mechanism model, and evaluating results. This course is designed for those with experience who want to add motion to their products and analyze dynamic reactions of moving components. These topics will enable you to measure dynamic reactions of components, measure the force required to keep a mechanism balanced, and determine the resting state of a mechanism. After completing this course, you will be prepared to work on mechanism designs using Creo Parametric Mechanism Dynamics Option (MDO).

Understand the mechanism dynamics option; Apply force motors, springs, and dampers to Assemblies; Apply forces, torques, and gravity to assemblies; Create dynamic analyses; Create force balance analyses; Create static analyses; Measure forces, velocities, accelerations, and other reactions; and Evaluate results

Software: Creo Parametric Mechanism Dynamics Option

Course Topics:

Module 1 Introduction to the Mechanism Simulation Process
Module 2 Adding Dynamic Entities to a Mechanism
Module 3 Analyzing the Mechanism Model
Module 4 Evaluating Analysis Results
Module 5 Project

Recommended prerequisites: Completed the Creo Parametric: Introduction to Creo Parametric; Advanced Assembly Design; or prior experience using the Creo Parametric software, as well as Mechanism Design.

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