Mechanism Simulation using Creo Parametric 3.0

Overview

Course Code: WBT-4522-0
Course Length: 8 Hours

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).

At the end of each module, you will complete a set of review questions to reinforce critical topics from that module. At the end of the course, you will complete a course assessment in Pro/FICIBILITY intended to evaluate your understanding of the course as a whole.

Course Objectives

- 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
- Evaluate results
Prerequisites

• Introduction to Creo Parametric
• Mechanism Design using Creo Parametric

Audience

• This course is intended for design engineers and mechanical designers who need to add and evaluate the motion of their assemblies. People in related roles will also benefit from taking this course.
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