

## Mechanism Simulation using Creo Parametric

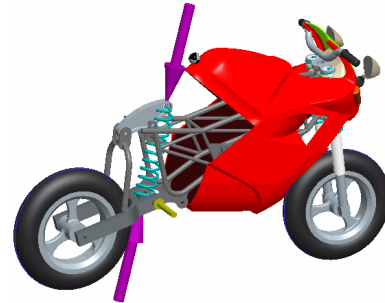
### Overview

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Course Code TRN-3428-T

Course Length 1 Day

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 experienced users 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 skills assessment. The questions are used to help reinforce your understanding of the module topics and form the basis for review of any topics, if necessary.



### Course Objectives

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- Understanding the mechanism dynamics option
- Applying force motors, springs, and dampers to assemblies
- Applying forces, torques, and gravity to assemblies
- Creating dynamic analyses
- Creating force balance analyses
- Creating static analyses
- Measuring forces, velocities, accelerations, and other reactions
- Evaluating results



## Prerequisites

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- Introduction to Creo Parametric
- Mechanism Design using Creo Parametric

## Audience

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- Design engineers and mechanical designers who need to add and evaluate the motion of their assemblies.
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## Agenda

### Day 1

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

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