

## Mechanism Simulation using Pro/ENGINEER Wildfire 4.0

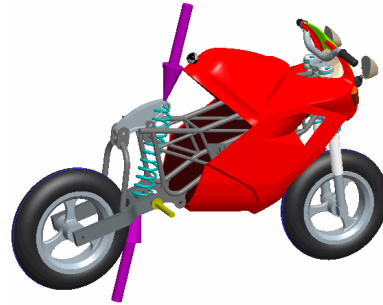
### Overview

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Course Code TRN-2182-T

Course Length 1 Day

This course is designed for experienced users who want to add motion to their products and analyze dynamic reactions of moving components. In this course, you will focus on learning advanced modeling and analysis skills in this comprehensive, hands-on course. Topics include developing the 3-D model, analyzing the mechanism model, and evaluating results. 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 Pro/ENGINEER Wildfire Mechanism Dynamics Option. 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 Pro/ENGINEER Wildfire 4.0
- Mechanism Design using Pro/ENGINEER Wildfire 4.0

## Audience

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- Design engineers and mechanical designers who have a 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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