

Freeform Surfacing Using Creo Parametric

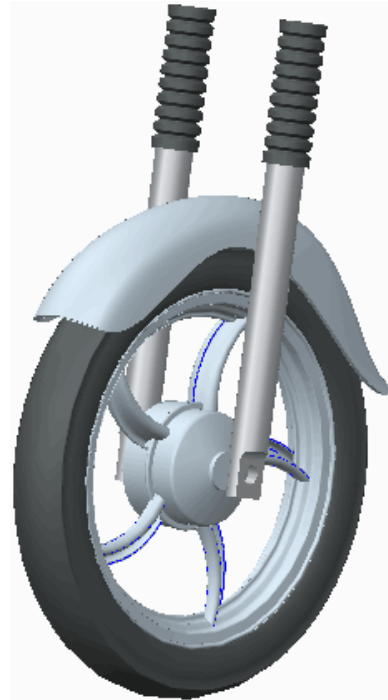
Overview

Course Code	TRN-3425-T
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Course Length	2 Days
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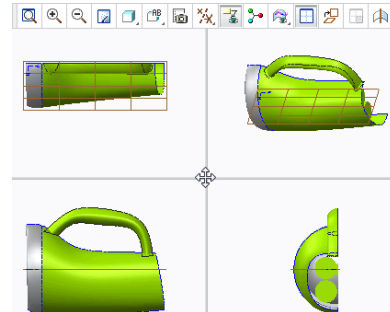
In Creo Parametric, you can create freeform surface models using the Style and Freestyle modeling environments. Collectively, the use of these environments is often called Freeform surfacing. The Style modeling environment is a spline-based freeform modeler that enables you to combine the parametric feature-based modeling approach with the unconstrained freeform surface modeling approach. This gives you the flexibility to design complex-shaped products in a single modeling environment. The Freestyle modeling environment provides commands to create smooth and well defined B-spline surfaces quickly and easily using a polygonal control mesh.

In this course, you will learn how to use the Style and Freestyle environments to create and manipulate freeform curves, freeform surfaces, freeform surface details, and advanced freeform surface models. You will also learn how to integrate style features with other parametric features in design models. After completing this course, you will be well prepared to design complex-shaped freeform surface models in Creo Parametric. At the end of each module, you will complete a set of review questions to reinforce critical topics from that module. Your instructor will discuss these with the class. At the end of the course, you will find a course assessment in Pro/FICIENCY intended to evaluate your understanding of the course as a whole.



Course Objectives

- Introduction to the Freestyle Surface Modeling Process
- Creating Freestyle Surface Models
- Introduction to the Style Surface Modeling Process
- Understanding Style Surface Modeling Concepts
- Creating Initial Style Curves
- Developing Style Surface Models
- Advanced Tools and Techniques for Defining Style Shapes
- Creating Smooth Style Surface Models
- Integrating Style and Parametric Features
- Techniques for Creating Common Detailed Shapes
- Creating Complex, High Quality Style Surface Models



Prerequisites

- Introduction to Creo Parametric

Audience

- Design engineers, mechanical designers, who have a need to create styled surface geometry.

Agenda

Day 1

Module	1	Introduction to the Freestyle Surface Modeling Process
Module	2	Creating Freestyle Surface Models
Module	3	Introduction to the Style Surface Modeling Process
Module	4	Understanding Style Surface Modeling Concepts
Module	5	Creating Initial Style Curves
Module	6	Developing Style Surface Models

Day 2

Module	7	Advanced Tools and Techniques for Defining Style Shapes
Module	8	Creating Smooth Style Surface Models
Module	9	Integrating Style and Parametric Features
Module	10	Techniques for Creating Common Detailed Shapes
Module	11	Creating Complex, High Quality Style Surface Models
