Interactive Surface Design using Creo Parametric 2.0

Overview

Course Code  WBT-3921-0
Course Length  16 Hours

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. At the end of the course, you will complete a course assessment in Pro/FICIENCY intended to evaluate your understanding of the course as a whole.

Course Objectives

- Understand the freestyle surface modeling process
- Create freestyle surface models
- Understand the style surface modeling process
- Understand style surface modeling concepts
- Create initial style curves
- Develop style surface models
- Use advanced tools and techniques for defining style shapes
- Create smooth style surface models
- Integrate style and parametric features
- Use techniques for creating common detailed shapes
- Create complex, high quality style surface models

**Prerequisites**

- Introduction to Creo Parametric 2.0

**Audience**

- This course is intended for design engineers and mechanical designers who need to create styled surface geometry.