

## Surfacing using Creo Elements/Pro 5.0 (formerly Pro/ENGINEER Wildfire 5.0)

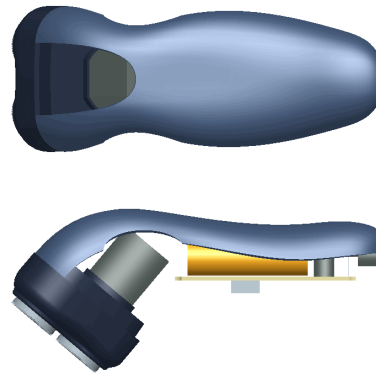
### Overview

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Course Code TRN-2239-T

Course Length 3 Days

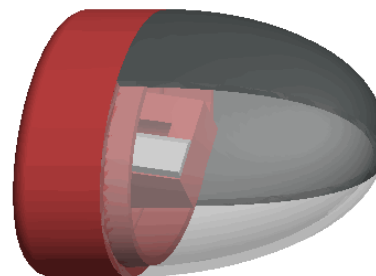
In this course, you will learn how to use various techniques to create complex surfaces with tangent and curvature continuities. You will also learn how to manipulate surfaces using editing tools, and analyze surfaces for quality and desired characteristics. In addition, you will learn how to create solid features using the surfaces as references. Pro/FICIENCY assessments will be provided in order for you to assess your understanding of the course materials. The assessment results will also identify the class topics that require further review. At the end of the class, you will either take an assessment by using your PTC University account, or your instructor will provide training on how to do this after the class. After completing this course, you will be well prepared to create complex shaped models using surfaces in Pro/ENGINEER Wildfire 5.0.



### Course Objectives

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- Describe surface modeling and its terminology
- Learn advanced selection techniques
- Create advanced datum features
- Use advanced sketching techniques
- Learn basic surfacing tools
- Create various boundary surfaces
- Create variable section sweep surfaces
- Create helical sweep surfaces
- Create swept blend surfaces
- Utilize surface analysis tools
- Extend and trim surfaces
- Manipulate surfaces
- Create and edit solid models using surface quilts
- Utilize the master model technique



## Prerequisites

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- Introduction to Pro/ENGINEER Wildfire 5.0
- Pro/ENGINEER Wildfire 5.0 Update from Pro/ENGINEER Wildfire 4.0.

## Audience

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- This course is intended for mechanical designers, design engineers, industrial designers, and related roles. The topics in this course are also available as Web-based training courses.
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## Agenda

### Day 1

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Module 1 Surface Modeling Overview

Module 2 Advanced Selection

Module 3 Advanced Datum Features

Module 4 Advanced Sketching

Module 5 Basic Surfacing Tools

Module 6 Boundary Blend Surfaces

### Day 2

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Module 7 Additional Boundary Surfaces

Module 8 Variable Section Sweeps

Module 9 Helical Sweeps

Module 10 Swept Blends

Module 11 Analyzing Surface Curvature

Module 12 Additional Surface Analysis Tools

### Day 3

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Module 13 Extending and Trimming Surfaces

Module 14 Manipulating Surfaces

Module 15 Creating and Editing Solids using Quilts

Module 16 Master Model Technique

Module 17 Project

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