



Surfacing using Pro/ENGINEER Wildfire 4.0

Course Code TRN-2176-T

Course Length 3 Days

Overview

The Surface Modeling with Pro/ENGINEER Wildfire 4.0 training course teaches you how to use surface modeling in Pro/ENGINEER Wildfire 4.0 to create models with shapes that are too complex for solid features. 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 via 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 4.0.

Prerequisites

Introduction to Pro/ENGINEER Wildfire 4.0

Pro/ENGINEER Wildfire 4.0 Update from Pro/ENGINEER Wildfire 3.0.

Audience

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.

Course Objectives

- 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

Agenda

Day 1

- 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

- 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

- 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

