



Advanced Assembly Management with Pro/ENGINEER Wildfire 3.0

Course Code TRN-1828-T

Course Length 3 Days

Overview

Pro/ENGINEER Wildfire 3.0 enables you to create complex assemblies using a top-down design process.

In this course, you will learn how to use Pro/ENGINEER Wildfire 3.0 to create and manage complex assemblies using top-down design techniques. In the top-down design process, you start an assembly design by creating a layout. The layout contains specifications and parameters that are used to control the entire assembly design. Then you create a preliminary assembly structure. This structure contains the components and their hierarchy within the assembly. Next, you use skeletons to define critical component dimensions and mounting locations, space requirements, and the motion between the assembly components. Finally, you create component geometry by referencing the skeletons and sharing design information within the assembly.

In addition, you will also learn how to reduce file size and regeneration time in complex parts, assemblies and drawings by using simplified representations. Simplified representations enable you to exclude components that are not necessary to the current design task, thereby reducing geometry detail and improving system response times. You will apply the concepts and techniques that you learnt in the course to complete a top-down design project.

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 the course, you will have a better understanding of the top-down design process and how to work efficiently with large, complex product designs using Pro/ENGINEER Wildfire 3.0.

Prerequisites

Introduction to Pro/ENGINEER Wildfire 3.0.

Pro/ENGINEER Wildfire 3.0 Update from Pro/ENGINEER Wildfire 2.0.

Audience

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

Topics

- Create design layouts and assembly structures.
- Creating design frameworks using skeletons.
- Creating design geometry using data sharing features.
- Managing external references in design models.
- Modifying assembly structures using layouts and skeletons.
- Reducing regeneration times in complex parts and drawings.
- Creating simplified representations of complex assemblies, using various selection techniques.
- Replacing and substituting components in assemblies.
- Modifying components in simplified representations using on-demand simplified representations.
- Updating simplified representations using definition rules.
- Creating simplified representations of complex drawings.

Agenda

Day 1

Module 1 Introduction

Module 2 Creating Design Frameworks

Module 3 Communicating Design Information

Day 2

Module 4 Analyzing and Modifying Assembly Structures

Module 5 Managing Complex Parts

Module 6 Creating Simplified Representations

Day 3

Module 7 Replacing and Substituting Components

Module 8 Modifying Simplified Representations

Module 9 Managing Complex Drawings

Module 10 Project

