



Advanced Assembly Design with Pro/ENGINEER Wildfire 4.0

Course Code TRN-2174-T
Course Length 3 Days

Overview

In this course, you will learn how to use Pro/ENGINEER Wildfire 4.0 to create and manage complex assemblies. You will learn how to use advanced assembly tools that enable you to add and maintain design, increase your efficiency, and increase system performance when working with large assemblies.

In addition, you will learn the basics of using and creating predefined assembly structures and skeletons, both valuable tools typically used in a top-down design process. The course also includes an assembly design project that enables you to practice your new skills by performing various design tasks in an assembly model.

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.

Prerequisites

Fast Track to Pro/ENGINEER Wildfire 4.0

Audience

Design engineers, mechanical designers, and related roles.

Course Objectives

- Using Advanced Assembly Constraints
- Creating and Using Component Interfaces
- Creating and Using Flexible Components
- Restructuring and Mirroring Assemblies
- Using Assembly Features and Shrinkwrap
- Replacing Components in an Assembly

- Understanding the Basics of Simplified Reps
- Creating Cross-Sections, Display Styles, and Combined Views
- Substituting Components By Rep, Envelope, and Model
- Understanding Advanced Simplified Rep Functionality
- Creating and Using Assembly Structure and Skeletons
- Project

Agenda

Day 1

- Module 1 Using Advanced Assembly Constraints
- Module 2 Creating and Using Component Interfaces
- Module 3 Creating and Using Flexible Components
- Module 4 Restructuring and Mirroring Assemblies

Day 2

- Module 5 Using Assembly Features and Shrinkwrap
- Module 6 Replacing Components in an Assembly
- Module 7 Understanding the Basics of Simplified Reps
- Module 8 Creating Cross-Sections, Display Styles, and Combined Views

Day 3

- Module 9 Substituting Components By Rep, Envelope, and Model
- Module 10 Understanding Advanced Simplified Rep Functionality
- Module 11 Creating and Using Assembly Structure and Skeletons
- Module 12 Project

