

Advanced Assembly Design using Creo Parametric

Overview

Course Code TRN-3404-T

Course Length 3 Days

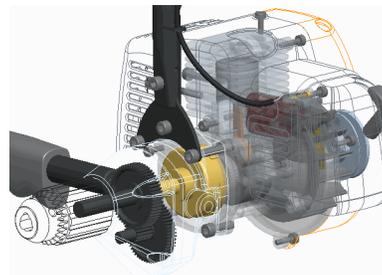
In this course, you will learn how to use Creo Parametric to create and manage complex assemblies. You will learn how to use advanced assembly tools that enable you to add and maintain design, increase your efficiency, and increase system performance when working with large assemblies. In addition, you 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 skills assessment. The questions are used to help reinforce your understanding of the module topics and form the basis for review of any topics, if necessary.



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, layer states, and combined views
- Substituting components using user defined, envelopes, and simplified reps
- Understanding advanced simplified rep functionality
- Creating and using assembly structure and skeletons



Prerequisites

Audience

- Design engineers, mechanical designers, and related roles

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, Layer States, and Combined Views

Day 3

Module	9	Substituting Components using User Defined, Envelopes, and Simplified Reps
Module	10	Understanding Advanced Simplified Rep Functionality
Module	11	Creating and Using Assembly Structure and Skeletons
Module	12	Project
