Pro/ENGINEER Wildfire 4.0 Update from Pro/ENGINEER Wildfire 2.0

Overview

| Course Code	TRN-2172-T
Course Length	2 Days

In this course, you will learn how to utilize many of the enhancements to core functionality in Pro/ENGINEER Wildfire 4.0. This course is intended as an update directly from Pro/ENGINEER Wildfire 2.0 to Pro/ENGINEER Wildfire 4.0, so some of the enhancements covered in this course were introduced in the Pro/ENGINEER Wildfire 3.0 release. You will become familiar with enhancements to Part mode, including embedded datum creation, and warp and partial shell features. You will learn new methods for creating features such as swept blends, and new methods for placing user defined features. You review new capabilities for feature manipulation, such as enhanced patterning capabilities. You will become familiar with the enhancements to Sketcher, such as how to copy and paste items in sketcher and how to insert predefined shapes such as polygons and common engineering sections, such as I-beams. You will also learn how to reference intent objects and replace sketcher references. You will learn about new and enhanced Assembly capabilities such as the Global Reference Manager and the new user interface for assembling components. You will use new drawing functionality, including how to create shaded drawing views. You will also learn about sheetmetal enhancements including how to create multiple walls in a single operation.
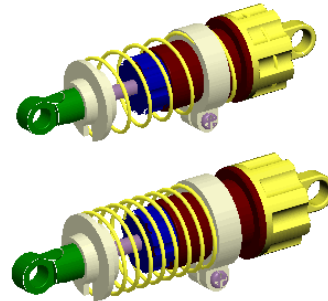
Course Objectives

- Describe and utilize Part enhancements.
- Describe and utilize Sketcher enhancements.
- Describe and utilize Assembly enhancements.
- Describe and utilize Drawing enhancements.
- Describe and utilize Sheetmetal enhancements.
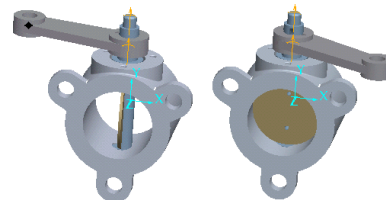
Prerequisites

- Completion of T1707-340 Pro/ENGINEER Wildfire 2.0 Update or equivalent experience.

Audience

- This course is intended for people who have already upgraded to Pro/ENGINEER Wildfire 2.0, and who are moving directly to Pro/ENGINEER Wildfire 4.0.

Agenda

Day 1

Module	1	Part Enhancements
Module	2	Part Feature Duplication Enhancements
Module	3	Sketcher Enhancements

Day 2

Module	4	Assembly Component Enhancements
Module	5	Advanced Assembly Enhancements
Module	6	Drawing Enhancements
Module	7	Sheetmetal Enhancements

Course Content

Module 1. Part Enhancements

  i. Navigator and Browser Enhancements
  ii. File Open Dialog Enhancements
  iii. Parameters Dialog Box Enhancements
  iv. One-By-One Selection
  v. Exact Relation
  vi. Asynchronous Curve Creation
  vii. Draft Enhancements
  viii. Extend Enhancements
  ix. Swept Blend Dashboard
  x. Swept Blend Enhancements
  xi. Warp Enhancement
  xii. Embedded Datum Features
  xiii. Intent Datum Features Enhancements
  xiv. Merge Enhancements
  xv. Partial Shell Option
  xvi. Shell Enhancements
  xvii. Hole Profile Options
  xviii. Tapered Holes and Pipe Threads
  xix. Cosmetic Thread Enhancements
  xx. Remove Surface Feature
  xxi. Auto Round
  xxii. Part Parent/Child Information Enhancements

Module 2. Part Feature Duplication Enhancements

  i. UDF Enhancements
  ii. Intent-Based UDFs
  iii. Copy/Paste Enhancements
  iv. Group Enhancements
  v. Creating Curve Patterns
  vi. Fill Pattern Enhancements
  vii. Creating a Pattern of Patterns
  viii. Moving/Mirroring Patterns
  ix. Reference Pattern Enhancements

Module 3. Sketcher Enhancements

  i. Default Diameter Dimensions
  ii. Locked/Modified Dimensions Enhancement
  iii. Auto-Locking Dimensions
  iv. Sketcher Line Style and Color
  v. New Sketcher Workflow

vi. Undo/Redo Reorient View

vii. Using Cut/Copy/Paste in Sketcher

viii. New Sketcher Palette

ix. Sketched Text Enhancements

x. Sketcher Intent Object Referencing

xi. Replacing Sketcher References

xii. Sketcher Diagnostic Tools

Module 4. Assembly Component Enhancements

i. Component Assembly UI Enhancements

ii. Using the Component Dashboard for Constraints

iii. Using the Component Dashboard for Connections

iv. Component Transparency Enhancements

v. Component Dashboard Options

vi. Component Drag Enhancements

vii. Active Component Enhancements

viii. Creating Component Interfaces

ix. Placing Single and Multiple Components using Interfaces

x. Placing Components with Interface Rules

Module 5. Advanced Assembly Enhancements

i. Zone Enhancements

ii. Axis Alignment Enhancements

iii. Clipped State Enhancements

iv. Frozen Component Enhancements

v. Assembly Family Table Enhancements

vi. Data Sharing UI Enhancements

vii. Miscellaneous Assembly Enhancements

viii. Flexible Component Enhancements

ix. Simplified Representation Enhancements

x. Global Reference Viewer

xi. Replace Component Enhancements

Module 6. Drawing Enhancements

i. Drawing Template Enhancements

ii. Shaded Views

iii. View States

iv. 3-D Sections

v. Drawing Layer Enhancements

vi. Aligning and Centering Dimensions

vii. Diameter and Radius Dimension Enhancements

viii. Ordinate Dimension Enhancements

ix. Dimension Clipping Enhancements

Module 7. Sheetmetal Enhancements