



## Introduction to Pro/ENGINEER Wildfire 4.0

Course Code TRN-2169-T

Course Length 5 Days

### Overview

This course is designed for new users who want to become proficient with Pro/ENGINEER Wildfire 4.0 as quickly as possible. You will focus on learning core-modeling skills in this comprehensive, hands-on course. Topics include sketching, part modeling, assemblies, drawings, and basic model management techniques.

The course also includes a comprehensive design project that enables you to practice your new skills by creating realistic parts, assemblies, and drawings.

At the end of each module, you will find 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.

After completing the course you will be well prepared to work effectively on product design projects using Pro/ENGINEER Wildfire.

### Prerequisites

None

### Audience

This course is intended for product designers, drafters, industrial/conceptual designers, and routed systems designers. People in related roles will also benefit from taking this course.

### Course Objectives

- Learning the basic Pro/ENGINEER Design Process
- Understanding Pro/ENGINEER concepts
- Learning how to use the Pro/ENGINEER interface
- Selecting and editing items
- Sketching geometry and using tools
- Creating sketches for features

- Creating datum planes and datum axes
- Creating extrudes, revolves, and ribs
- Utilizing internal sketches and embedded datums
- Creating holes, drafts, and shells
- Creating sweeps and blends
- Creating rounds and chamfers
- Grouping, copying, and mirroring items
- Creating patterns
- Measuring and inspecting models
- Assembling with constraints
- Assembling with connections
- Exploding assemblies
- Creating drawing views
- Creating drawing details
- Using layers
- Investigating parent/child relationships
- Capturing and managing design intent
- Resolving failures and seeking help
- Comprehensive Design Project

## **Agenda**

### **Day 1**

- Module 1 Introduction to the Pro/ENGINEER Wildfire Basic Modeling Process
- Module 2 Understanding Pro/ENGINEER Concepts
- Module 3 Using the Pro/ENGINEER Interface
- Module 4 Selecting and Editing
- Module 5 Creating Sketcher Geometry

### **Day 2**

- Module 6 Using Sketcher Tools
- Module 7 Creating Sketches for Features
- Module 8 Creating Datum Features: Planes and Axes
- Module 9 Creating Extrudes, Revolves, and Ribs
- Module 10 Utilizing Internal Sketches and Embedded Datums
- Module 11 Creating Sweeps and Blends

### **Day 3**

- Module 12 Creating Holes and Shells
- Module 13 Creating Rounds and Chamfers
- Module 14 Group, Copy, and Mirror Tools
- Module 15 Creating Patterns
- Module 16 Measuring and Inspecting Models

#### **Day 4**

Module 17 Assembling with Constraints  
Module 18 Assembling with Connections  
Module 19 Exploding Assemblies  
Module 20 Creating Drawing Views  
Module 21 Creating Drawing Details  
Module 22 Using Layers

#### **Day 5**

Module 23 Investigating Parent/Child Relationships  
Module 24 Capturing and Managing Design Intent  
Module 25 Resolving Failures and Seeking Help  
Module 26 Project

