



Introduction to Pro/ENGINEER Wildfire 5.0

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Course Code TRN-2232-T
Course Length 5 Days

Overview

This course is designed for new users who want to become proficient with Pro/ENGINEER Wildfire 5.0 as quickly as possible. In this course, you will focus on learning core-modeling skills.

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.

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 sweeps and blends
- Creating holes, shells, and drafts
- Creating rounds and chamfers
- Grouping, copying, and mirroring items
- Creating patterns

- Measuring and inspecting models
- Assembling with constraints
- Assembling with connections
- Exploding assemblies
- Laying out drawings and creating views
- Creating drawing annotations
- Using layers
- Investigating parent/child relationships
- Capturing and managing design intent
- Resolving failures and seeking help
- Comprehensive two part Design Project

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.

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, Shells, and Draft

Module 13 Creating Rounds and Chamfers

Module 14 Project I

Module 15 Group, Copy, and Mirror Tools

Module 16 Creating Patterns

Module 17 Measuring and Inspecting Models

Day 4

Module 18 Assembling with Constraints
Module 19 Assembling with Connections
Module 20 Exploding Assemblies
Module 21 Drawing Layout and Views
Module 22 Creating Drawing Annotations
Module 23 Using Layers

Day 5

Module 24 Investigating Parent/Child Relationships
Module 25 Capturing and Managing Design Intent
Module 26 Resolving Failures and Seeking Help Module 27 Project II

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