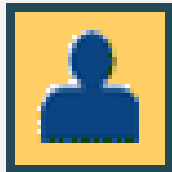
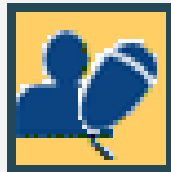


Pro/ENGINEER Wildfire 2.0 Curriculum



Live Classroom






Virtual Class



Web Based

NOTE: For a graphical depiction of the curriculum based on job role, please visit this page:
http://www.ptc.com/services/edserv/learning/paths/ptc/proe_wf2.htm

Fast Track to Pro/ENGINEER Wildfire 2.0

Course Number		TRN-1706-T
Course Number		TRN-DL1814L-T and TRN-DL1815L-T
Course Number		TRN-WBT1814-S and TRN-WBT1815-S




Abstract

This course is designed for new users who want to become proficient with Pro/ENGINEER Wildfire 2.0 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.

Modules

Module 1	Introduction to Pro/ENGINEER Wildfire
Module 2	Editing Design Models
Module 3	Creating Direct Features
Module 4	Sketching Basic Geometry Features
Module 5	Capturing Design Intent with Sketcher
Module 6	Assembling with Constraints
Module 7	Managing Models
Module 8	Project I
Module 9	Assembling Components using Interfaces and Flexible Components
Module 10	Creating Drawings
Module 11	Resolving Regeneration Failures
Module 12	Project II
Module 13	Sketching Advanced Geometry
Module 14	Duplicating Design Model Features
Module 15	Assembling with Connections
Module 16	Project III
Module 17	Enhancing Design Models using Family Tables, Relations, and Parameters
Module 18	Managing Assemblies
Module 19	Analyzing Design Models
Module 20	Project IV

Creating Production Drawings with Pro/ENGINEER Wildfire 2.0

Course Number		TRN-1703-T
Course Number		TRN-DL1703L-T
Course Number		TRN-WBT1703-S




Abstract

Creating Production Drawings with Pro/ENGINEER Wildfire 2.0 is a comprehensive training course that teaches you how to quickly create detailed drawings using information captured within the 3-D design models. The course builds upon the basic lessons you learned in Fast Track to Pro/ENGINEER Wildfire 2.0, and serves as the second stage learning. In this course, you will learn how to create drawings, how to detail drawings, and how to take advantage of the parametric and associative nature of Pro/ENGINEER Wildfire 2.0 when manipulating drawings. You will also learn system administration information relating to drawings. Upon completion of this course, you will be able to create complete production drawings suitable for manufacturing.

Modules

Module 1	Introduction to Drawings
Module 2	Creating Views in Drawings
Module 3	Adding Details to Drawings - I
Module 4	Adding Details to Drawings - II
Module 5	Layers in Drawings
Module 6	Adding Tolerances
Module 7	Adding 2-D Draft Geometry and Symbols
Module 8	Creating Tables
Module 9	Creating Part Catalogues
Module 10	Creating Drawing Formats
Module 11	Creating Template Drawing
Module 12	Setting up Drawing Standards
Module 13	Managing Large Drawings
Module 14	Configuration File Options
Module 15	Drawing Setup File Options

Advanced Part Modeling with Pro/ENGINEER Wildfire 2.0

Course Number		TRN-1713-T
Course Number		TRN-DL1713L-T
Course Number		TRN-WBT1713-S




Abstract

In this course, you will learn how to use advanced part modeling techniques in Pro/ENGINEER Wildfire 2.0 to improve your product designs. You will learn how to create and modify design models using advanced sketching techniques and feature creation tools. You will learn how to reuse existing design geometry when creating new design models. You will also learn how to analyze and optimize design models to conform to design specifications. After completing this advanced course, you will be well prepared to work efficiently with complex product designs using Pro/ENGINEER Wildfire 2.0.

Modules

Module 1	Advanced Sketch-based Features
Module 2	Advanced Drafts
Module 3	Advanced Rounds and Chamfers
Module 4	Advanced Sweeps and Blends
Module 5	Creating Geometry from Surfaces and Curves
Module 6	Reusing Product Designs
Module 7	Advanced Component Operations
Module 8	Creating Styled and Warp Features
Module 9	Analyzing and Optimizing Design Models

Advanced Assembly Management with Pro/ENGINEER Wildfire 2.0

Course Number		TRN-1705-T
Course Number		TRN-DL1705L-T
Course Number		TRN-WBT1705-S




Abstract

Pro/ENGINEER Wildfire 2.0 enables you to create complex assemblies using a top-down design process. In this course you will learn how to use Pro/ENGINEER Wildfire 2.0 to create and manage complex assemblies using top-down design techniques. In the top-down design process, you start an assembly design by creating a layout. The layout contains specifications and parameters that are used to control the entire assembly design. Then you create a preliminary assembly structure. This structure contains the components and their hierarchy within the assembly. Next, you use skeletons to define critical component dimensions and mounting locations, space requirements, and the motion between the assembly components. Finally, you create component geometry by referencing the skeletons and sharing design information within the assembly.

Modules

Module 1	Introduction
Module 2	Creating Design Frameworks
Module 3	Communicating Design Information
Module 4	Analyzing and Modifying Assembly Structures
Module 5	Managing Complex Parts
Module 6	Creating Simplified Representations
Module 7	Replacing and Substituting Components
Module 8	Modifying Simplified Representations
Module 9	Managing Complex Drawings
Module 10	Project

Behavioral Modeling with Pro/ENGINEER Wildfire 2.0

Course Number		TRN-1802-T
Course Number		TRN-DL1802L-T
Course Number		TRN-WBT1802-S




Abstract

This course is designed for experienced users who want to add additional features that enable you to meet or exceed the design specifications of your products. You will learn how to analyze your models and create analysis features that can enforce your design intent. You will also learn how to create sensitivity and feasibility studies that aid you in determining how to reach your design goals. Additionally, you learn how to create optimization design studies that enable you to configure the dimensions and parameters that Pro/ENGINEER can change in order to meet your design goals.

Modules

Module 1	Analyzing and Optimizing Design Models I
Module 2	Analyzing and Optimizing Design Models II
Module 3	Analyzing and Optimizing Design Models III

Mechanism Design and Dynamics with Pro/ENGINEER Wildfire 2.0

Course Number		TRN-1801-T
Course Number		TRN-DL1801L-T
Course Number		TRN-WBT1801-S




Abstract

This course is designed for experienced users who want to add motion to their products and analyze dynamic reactions of moving components. You will learn advanced modeling and analysis skills in this comprehensive, hands-on course. Topics include creating mechanism connections, modeling dynamic entities, defining mechanism analyses, and evaluating results. These topics will enable you to measure dynamic reactions of components, measure the force required to keep a mechanism balanced, determine the resting state of a mechanism, and determine whether a mechanism reacts as intended.

Modules

Module 1	Introduction to Mechanism Design and Dynamics with Pro/ENGINEER
Module 2	Wildfire 2.0
Module 3	Creating Mechanism Connections
Module 4	Modeling Dynamic Entities
Module 5	Defining Mechanism Analyses
Module 6	Evaluating Results
Module 7	Project

Designing Sheetmetal Products with Pro/ENGINEER Wildfire 2.0

Course Number		TRN-1709-T
Course Number		TRN-DL1709L-T
Course Number		TRN-WBT1709-S




Abstract

In this course you will learn how to design sheetmetal parts and assemblies, including sheetmetal production drawings. All the functions needed to create sheetmetal parts, drawings, and assemblies are covered. Upon completion of this course, you will be able to create sheetmetal design models, create the flat state of the model, and document both in production drawings.

Modules

Module 1	Getting Started with Sheetmetal Design
Module 2	Building Sheetmetal Geometry
Module 3	Unbending Sheetmetal Parts
Module 4	Adding Features to Sheetmetal Parts
Module 5	Project Laboratory 1
Module 6	Forming Sheetmetal Parts
Module 7	Bending Sheetmetal Parts
Module 8	Documenting and Validating Sheetmetal Design
Module 9	Project Laboratory 2
Module 10	Top-Down Design Process

Surface Modeling with Pro/ENGINEER Wildfire 2.0

Course Number		TRN-1710-T
Course Number		TRN-DL1710L-T
Course Number		TRN-WBT1710-S




Abstract

In Pro/ENGINEER Wildfire 2.0 you can use surface modeling to create design models with shapes that are too complex for solid features. In this course you learn how to use various techniques to create complex surfaces with tangent and curvature continuities. You can then create solids using the surfaces as references. You will also learn how to analyze surfaces for quality as well as manipulate surfaces using the various editing tools available in Pro/ENGINEER Wildfire 2.0. After completing this course you will be well prepared to create complex shaped design models using surfaces in Pro/ENGINEER Wildfire 2.0. At the end of each day, you use the Pro/FICIENCY skills assessments to reinforce your understanding of the course topics. Your instructor utilizes the results from the anonymous skills assessments as the basis for daily review sessions.

Modules

Module 1	Introduction to Surface Modeling
Module 2	Understanding the Surface Modeling Workflow
Module 3	Creating Design Frameworks for Surface Models
Module 4	Project I
Module 5	Surface Modeling using Boundaries
Module 6	Surface Modeling using Swept Blends
Module 7	Surface Modeling using Variable Section Sweeps
Module 8	Project II
Module 9	Analyzing Surface Models
Module 10	Manipulating Surfaces
Module 11	Creating Solids using Quilts
Module 12	Project III

Freeform Surface Modeling with Pro/ENGINEER Wildfire 2.0

Course Number		TRN-1711-T
Course Number		TRN-DL1711L-T
Course Number		TRN-WBT1711-S

Abstract

In Pro/ENGINEER Wildfire 2.0, you can create freeform surface models using the interactive modeling environment called Style (ISDX). Style is a spline-based freeform modeler that allows you to combine the parametric feature-based modeling approach with the unconstrained freeform surface modeling approach. This will give you the flexibility to design complex shaped products in a single modeling environment.




In this course, you learn how to use Style to create and manipulate freeform curves and surfaces. You also learn how to integrate style features with other parametric features in design models.

After completing this course, you will be well prepared to design complex shaped freeform surface models in Pro/ENGINEER Wildfire 2.0.

Modules

Module 1	Introduction to Freeform Surface Modeling
Module 2	Creating Initial Freeform Geometry
Module 3	Developing Freeform Surface Models
Module 4	Project I
Module 5	Defining Complex Freeform Shapes
Module 6	Creating Smooth Freeform Surface Models
Module 7	Integrating Style Features
Module 8	Creating Detailed and Complex Models
Module 9	Project II

Creating 2-D Schematics with RSD 5.0 and Pro/ENGINEER Wildfire 2.0

Course Number		TRN-1723-T
Course Number		TRN-DL1723L-T
Course Number		TRN-WBT1723-S




Abstract

In this course, you will learn how to use Routed Systems Designer (RSD) to create schematic diagrams for both electrical cabling and piping designs. You will learn how to create block diagrams to represent initial system designs. You will also learn how to create electrical circuit and wiring diagrams, and how to create Process and Instrumentation Diagrams (P& ID) for piping systems. Finally, you will learn how to use these diagrams to pass design information into 3-D harness and piping designs in Pro/ENGINEER Wildfire.

Modules

Module 1	Introduction
Module 2	Creating and Manipulating Designs
Module 3	Configuring Catalog Properties and Templates
Module 4	Creating and Using Artifacts in the Catalog Explorer
Module 5	Creating Block Diagrams
Module 6	Creating Electrical and Fluid Diagrams - I
Module 7	Creating Electrical and Fluid Diagrams - II
Module 8	Communicating Information with Pro/ENGINEER Wildfire

Modeling 3-D Electrical Wiring Harnesses with Pro/ENGINEER Wildfire 2.0

Course Number		TRN-1714-T
Course Number		TRN-DL1714L-T
Course Number		TRN-WBT1714-S




Abstract

In this course, you learn how to create 3-D electrical harnesses using Pro/ENGINEER Wildfire 2.0. This includes using schematic diagrams created with Routed Systems Designer 5.0 to pass information into 3-D harness designs created within Pro/ENGINEER Wildfire 2.0. You learn how to route electrical harnesses, create flattened harnesses for manufacturing, and document harness designs by creating flattened harness drawings that include customized BOM tables and wire list information. After successfully completing the course, you will be able to create 3-D electrical harnesses and associated manufacturing deliverables using Pro/ENGINEER Wildfire 2.0.

Modules

Module 1	Diagram and Harness Development Process Overview
Module 2	Creating Wiring Diagrams in RSD
Module 3	Creating Harness Assembly Structures
Module 4	Establishing Logical References
Module 5	Creating Networks
Module 6	Routing Wires and Cables
Module 7	Modifying Wire and Cable Routings
Module 8	Creating Flat Harnesses
Module 9	Documenting Harness Designs
Module 10	Harness Pro/REPORT Parameters

Modeling 3-D Piping Designs with Pro/ENGINEER Wildfire 2.0

Course Number		TRN-989-T
Course Number		TRN-DL989L-T
Course Number		TRN-WBT989-S




Abstract

The primary focus of this course is to learn how to create specification driven industrial piping designs using Pro/ENGINEER Wildfire 2.0. This includes learning how to use schematic diagrams created with Routed Systems Designer to drive 3-D industrial piping designs created within Pro/ENGINEER Wildfire 2.0. You also learn how to create non-specification driven mechanical piping designs using Pro/ENGINEER Wildfire 2.0.

Modules

Module 1	Introduction to Piping
Module 2	Configuring and Routing Pipelines
Module 3	Creating Piping Assembly Structures
Module 4	Configuring and Inserting Fittings
Module 5	Setting Up Specification Databases: Piping
Module 6	Setting Up Specification Databases: Fittings
Module 7	Configuring Project Specific Data Files
Module 8	Specification-Driven Routing and Inserting Fittings
Module 9	Creating Process and Instrumentation Diagrams in RSD
Module 10	Schematic Driven Pipeline Modeling
Module 11	Updating Piping Designs
Module 12	Creating Piping Drawings and Exporting ISOGEN Data
Module 13	Piping Pro/REPORT Parameters
Module 14	Piping Configuration Options

Structural and Thermal Simulation with Pro/ENGINEER Wildfire 2.0

Course Number		TRN-1717-T
Course Number		TRN-DL1866L-T and TRN-DL1867L-T
Course Number		TRN-WBT1866-S and TRN-WBT1867-S




Abstract

This course is designed for new users who want to test, validate, and optimize product designs with Pro/ENGINEER Wildfire 2.0's Mechanics module. Mechanics enables you to simulate structural and thermal loads on product designs. You will also complete comprehensive, hands-on lab exercises that simulate realistic analysis and design optimization activities. Advanced topics such as combined mechanical and thermal analysis techniques are also covered.

Modules

Module 1	Introduction to Structural and Thermal Simulation with Pro/ENGINEER Wildfire 2.0
Module 2	Optimizing Structural Designs using Mechanics
Module 3	Simplifying Design using Idealizations
Module 4	Optimizing Models for Analysis
Module 5	Assigning Properties to Materials
Module 6	Applying Constraints to Models
Module 7	Simulating Applied Loads on Models
Module 8	Creating and Running Analyses
Module 9	Comparing MPA and SPA Results
Module 10	Evaluating Analysis Results
Module 11	Running Sensitivity Studies
Module 12	Running Optimization Studies
Module 13	Applying Mechanics Analysis Concepts
Module 14	Projects

Creating Milling Sequences with Pro/ENGINEER Wildfire 2.0

Course Number		TRN-1719-T
Course Number		TRN-DL1863L-T, TRN-DL1864L-T, and TRN-DL1865L-T
Course Number		TRN-WBT1863-S, TRN-WBT1864-S, and TRN-WBT1865-S

Abstract

In this training course, you will learn how to machine products using Pro/ENGINEER Wildfire 2.0 manufacturing tools. This course covers creating tool paths for milling machines. You will learn how to complete each phase of the manufacturing process. You will start by creating the manufacturing model and setting up the manufacturing environment. This will include configuring tools, fixtures, and machining operations. You will also create milling sequences and post-process cutter location (CL) data to create machine code. After successfully completing the course, you will be able to create numerical control (NC) programs for milling machines and post-process cutter location (CL) data to create machine specific code.

Modules

Module 1	Introduction to Manufacturing
Module 2	Creating Workpieces
Module 3	Creating Manufacturing Models
Module 4	Creating Manufacturing Operations
Module 5	Creating Tools
Module 6	Using Manufacturing Parameters
Module 7	Creating Face Milling Sequences
Module 8	Creating Profile Milling Sequences
Module 9	Creating Volume Milling Sequences
Module 10	Creating Local Milling Sequences
Module 11	Creating Surface Milling Sequences
Module 12	Creating Trajectory Milling Sequences
Module 13	Creating Holemaking Sequences
Module 14	Creating Roughing, Re-roughing and Finishing Sequences
Module 15	Post-Processing CL Data
Module 16	Using the Process Manager
Module 17	Correcting Toolpath Failure
Module 18	Configuring the Manufacturing Environment
Module 19	Machining Project
Module 20	Using Indexing Tables and Duplicating NC Sequences
Module 21	Automating Workflows with Mapkeys
Module 22	Creating Auxiliary Milling Sequences
Module 23	Creating Pocket Milling Sequences
Module 24	Extra Models

Administering Pro/INTRALINK 3.4

Course Number		TRN-1800-T
Course Number		N/A
Course Number		N/A

Abstract




In this course, you will learn how to implement and perform administrative tasks in Pro/INTRALINK 3.4. This includes learning how to use Pro/INTRALINK 3.4 to manage product designs in a concurrent engineering environment. This training course focuses on installing the Pro/INTRALINK 3.4 system components and interfacing with Pro/ENGINEER Wildfire 2.0.

You learn how to plan, set up, configure, and manage the Pro/INTRALINK 3.4 database. You also learn how to perform storage cluster and package replications when managing multiple sites. Finally, you learn the best practices that should be adopted when using Pro/INTRALINK 3.4 and also how to troubleshoot software and user errors that occur in a production environment.

Modules

Module 1	Implementing Pro/INTRALINK
Module 2	Managing Licenses
Module 3	Installing Pro/INTRALINK
Module 4	Configuring Pro/INTRALINK
Module 5	Managing Product Design Information
Module 6	Administering the Pro/INTRALINK Database
Module 7	Managing Multiple Pro/INTRALINK Databases
Module 8	Best Practices for Running Pro/INTRALINK
Module 9	Troubleshooting Pro/INTRALINK

Pro/ENGINEER Wildfire 2.0 Update

Course Number		TRN-1707-T
Course Number		TRN-DL1707L-T
Course Number		TRN-WBT1707-S




Abstract

In this course you will learn how to utilize many of the enhancements to core functionality in Pro/ENGINEER Wildfire 2.0. This includes learning how to use new sketcher functionality and new methods for using sketches in sketch based features. You learn new methods for creating features such as rounds and chamfers, and new capabilities for feature manipulation, such as copying and mirroring features. You review assembly enhancements, including new methods for manipulating assembly components. You use new drawing functionality, including how to create drawing views using the new drawing view user interface. You also learn how to use the new sheet metal functionality for creating flat and flanged walls.

Modules

Module 1	User Interface and Modeling Enhancements
Module 2	Sketcher Enhancements
Module 3	Feature Enhancements
Module 4	Assembly Enhancements
Module 5	Drawing Enhancements
Module 6	Sheetmetal Enhancements

Pro/ENGINEER Wildfire 2.0 Update from Pro/ENGINEER 2001

Course Number		TRN-1715-T
Course Number		TRN-DL1715L-T
Course Number		TRN-WBT1715-S




Abstract

With the release of Pro/ENGINEER Wildfire and Pro/ENGINEER Wildfire 2.0, there have been many productivity and functionality improvements from Pro/ENGINEER 2001. These include a new user interface, a consolidated set of feature tools, and the ability to interact directly with models and features. In this course, you will learn how to quickly transition from Pro/ENGINEER 2001 directly to Pro/ENGINEER Wildfire 2.0. After completing this course, you will know how to utilize the new user interface and feature tools in both releases of Pro/ENGINEER Wildfire, enabling you to improve your modeling productivity.

Modules

Module 1	Introduction to Pro/ENGINEER Wildfire
Module 2	Selecting and Editing Models
Module 3	Creating Direct and Datum Features
Module 4	Creating Sketch Based Features
Module 5	Editing Geometry
Module 6	Managing Design Models
Module 7	Creating and Modifying Assemblies
Module 8	Creating and Modifying Drawings
Module 9	Creating Sheetmetal Walls (Optional)

Pro/INTRALINK 3.3 Update

Course Number		N/A
Course Number		N/A
Course Number		TRN-WBT031-S




Abstract

The Pro/INTRALINK 3.3 Update course provides the student with hands-on training on the features of Pro/INTRALINK 3.3 and the enhancements from 3.2. At the end of the course, a Pro/FICIENCY WebCheck skills assessment will be used to reinforce your understanding of the course topics.

Modules

Module 1	Pro/INTRALINK v.3.3 Overview
Module 2	Background of Using Pro/INTRALINK
Module 3	Pro/INTRALINK v.3.3 Enhancements
Module 4	Pro/INTRALINK v.3.3 Integration with Pro/ENGINEER Wildfire
Module 5	Pro/ENGINEER Wildfire Folder Navigator
Module 6	Tracking and Managing Objects Using Pro/INTRALINK v.3.3 Attributes
Module 7	Auto Check-In
Module 8	Switching Workspaces using Pro/INTRALINK v.3.3
Module 9	Introduction to Simplified Representations
Module 10	Creating External Simplified Representations
Module 11	Checking Out External Simplified Representations
Module 12	Generating Reports on External Simplified Representations
Module 13	Enhancements to Family Tables in Pro/INTRALINK v.3.3
Module 14	Verification Status of Family Table Objects
Module 15	Resolving Family Table Check Out Conflicts
Module 16	Generating Reports on Family Table Objects
Module 17	Duplicating Family Table Objects
Module 18	Modifying Family Table Objects

Using Pro/INTRALINK 3.4

Course Number		TRN-1716-T
Course Number		TRN-DL1716L-T
Course Number		TRN-WBT1716-S

Abstract

In this course, you will learn how to effectively manage product design information in a workgroup setting. This includes learning how to access and store product design information in Pro/INTRALINK 3.4, as well as how to manage that information throughout the product design process. You will also learn how to interact and work effectively with other designers in your workgroup by taking advantage of the collaboration tools provided by Pro/INTRALINK 3.4.

Modules

Module 1	Introduction to Pro/INTRALINK
Module 2	Modifying Design Models
Module 3	Creating Design Models
Module 4	Creating Production Drawings
Module 5	Creating Design Alternatives
Module 6	Sharing Product Design Information
Module 7	Resolving Design Conflicts
Module 8	Creating Product Design Variations