



Routed Systems Designer 8.0 for Pro/ENGINEER Wildfire 4.0

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Course Code TRN-2185-T

Course Length 3 Days

Overview

In this course, you will learn how to use Routed Systems Designer (RSD) to create schematic diagrams for both electrical harness and piping designs. You will learn how to administer the RSD working environment, and how to configure the catalog library. You will learn how to create functional block diagrams and block interconnect diagrams. You will learn how to create electrical circuit diagrams, and wiring diagrams, including wire interconnect diagrams.

You will also learn how to create process and instrumentation design (P&ID) diagrams for piping systems. Finally, you will learn how to use wiring diagrams and P&ID diagrams to configure 3-D harness designs and industrial piping designs created within Pro/ENGINEER Wildfire 4.0.

At the end of each module, you will complete Pro/FICIENCY skills assessment questions. These questions are used to help reinforce your understanding of the course topics and form the basis for review sessions.

Course Objectives

- Understanding the 2-D schematic design processes for electrical harness designs and piping designs.
- Configuring the RSD working environment.
- Creating and configuring the catalog library.
- Creating functional block diagrams, (including block interconnect diagrams).
- Creating circuit diagrams.
- Creating wiring diagrams, (including wire interconnect diagrams).
- Creating process and instrumentation design diagrams.
- Communicating diagram information to Pro/ENGINEER Wildfire.

Prerequisites

- None

Audience

- This course is intended for engineers, involved in the schematic 2-D layout of either electrical diagrams or piping diagrams.

Agenda

Day 1

- Module 1 Introduction to Routed Systems Designer
- Module 2 Configuring the Working Environment
- Module 3 Configuring Designs and Diagram Sheets
- Module 4 Configuring Catalog Properties
- Module 5 Creating Design Templates and Template Sheets
- Module 6 Using RSD Tools

Day 2

- Module 7 Creating Catalog Artifacts
- Module 8 Creating and Configuring a Central Catalog
- Module 9 Reviewing Designs
- Module 10 Instancing and Manipulating Objects
- Module 11 Creating Block Diagrams

Day 3

- Module 12 Creating Circuit Diagrams
- Module 13 Creating Wiring Diagrams
- Module 14 Creating Interconnect Diagrams
- Module 15 Creating P&ID Diagrams
- Module 16 Using Schematic Design Data in Pro/ENGINEER Harness and Piping Designs
- Module 17 Using Pro/Diagram Information

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