Cabling using Pro/ENGINEER Wildfire 4.0

In this course, you will learn how to create 3-D electrical harnesses using Pro/ENGINEER Wildfire 4.0. This includes using schematic diagrams created with Routed Systems Designer 8.0 to pass information into 3-D harness designs created within Pro/ENGINEER Wildfire 4.0.

You will also 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.

At the end of each module, you will complete on-line learning assessments that reinforce your understanding of the course topics. There is also a wrap-up assessment at the end of the course.

After successfully completing the course, you will be able to create 3-D electrical harnesses and associated manufacturing deliverables using Pro/ENGINEER Wildfire 4.0.

It is strongly recommended that cabling engineers attend this course and the Routed Systems Designer 8.0 for Pro/ENGINEER Wildfire 4.0 course. This will enable a full understanding of the complete process and an understanding of how the configuration of deliverables from RSD such as wiring diagrams provide essential input for creating electrical harness assemblies in Pro/ENGINEER Wildfire 4.0.

Module 1: Diagram and Harness Development Process Overview

Exercise 1: Reviewing Wiring Diagrams

Objectives

After successfully completing this exercise, you will know how to:

- Review RSD diagrams.

Scenario

Piping and Cabling Systems Incorporated (PCSI) is a supplier of fluid and gas piping systems to many industries. They design and manufacture fluid and gas piping systems including the associated electrical control and cabling systems.

You work in a cross-functional team of engineers involved in the design of both piping systems and electrical harness systems. You are working on a new manifold piping system; this involves the design of wiring diagrams and the design of associated electrical harness designs that form part of the manifold control panel. The exercises in each module take you through the activities

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Lei Shi

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