

## Piping using Creo Elements/Pro 5.0 (formerly Pro/ENGINEER Wildfire 5.0)

### Overview

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Course Code	TRN-2246-T
Course Length	3 Days

In this course, you will learn how to manually create (non-specification driven) mechanical piping designs using Pro/ENGINEER Wildfire. This includes learning how to configure pipelines, how to route pipelines, and how to insert pipe fittings such as valves and reducers.

You will also learn how to create specification driven industrial piping designs using Pro/ENGINEER Wildfire. 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.

You will learn how to document piping designs by creating drawings that include BOM tables, pipe bend tables, and engineering information. You will also learn how to export ISOGEN format files for creating pipeline, spool and systems isometric drawings.

### Course Objectives

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- Understand the manual piping design process.
  - Understand the specification-driven piping design process.
  - Create piping assembly structures.
  - Configure and route pipelines.
  - Move and modify pipelines.
  - Create pipe solids and fabricate pipes.
  - Configure and insert fittings.
  - Create piping report information.
  - Create piping drawings.
  - Configure a piping specification database.
  - Configure project specific data files.
  - Create specification-driven pipelines.
  - Create schematic driven pipelines.
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## Prerequisites

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- Introduction to Pro/ENGINEER Wildfire 5.0

## Audience

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- This course is intended for engineers, involved in the 3-D routing of mechanical piping systems and industrial piping systems.
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## Agenda

### Day 1

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Module 1	Introduction to Piping
Module 2	Creating Piping Assembly Structures
Module 3	Configuring and Routing Pipelines
Module 4	Moving and Modifying Pipelines
Module 5	Configuring and Inserting Fittings

### Day 2

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Module 6	Creating Solid Pipeline Models
Module 7	Gathering Piping Information
Module 8	Creating Piping Drawings
Module 9	Specification Database Overview
Module 10	Setting Up Specification Databases: Piping
Module 11	Setting Up Specification Databases: Fittings

### Day 3

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Module 12	General Master Catalog Files
Module 13	Configuring Project Specific Data Files
Module 14	Specification-Driven Routing and Inserting Fittings
Module 15	Using RSD Process and Instrumentation Diagrams Data
Module 16	Schematic Driven Pipeline Modeling
Module 17	Using ISOGEN PCF Data

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