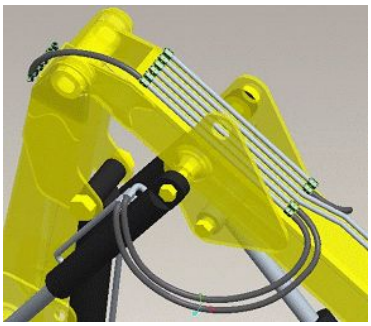
Piping using Creo Parametric

Overview

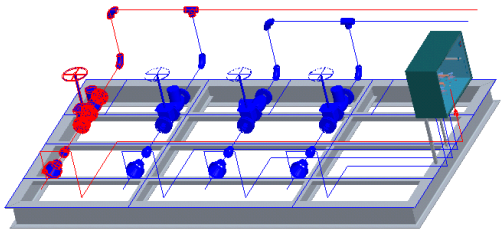


Course Length	3 Days

In this course, you will learn how to manually create (non-specification-driven) mechanical piping designs using Creo Parametric. This includes learning how to configure pipelines, route pipelines, and insert pipe fittings such as valves and reducers. You will also learn how to create specification-driven industrial piping designs using Creo Parametric. This includes learning how to use schematic diagrams created with Creo Schematics to drive 3-D industrial piping designs created within Creo Parametric. Finally, you learn how to document piping designs by creating drawings that include BOM tables, pipe bend tables, and engineering information, as well as how to export ISOGEN format files for creating pipeline, spool, and systems isometric drawings.

At the end of each module, you will complete a set of review questions to reinforce critical topics from that module. At the end of the course, you will complete a course assessment in Pro/FICIENCY intended to evaluate your understanding of the course as a whole.

Course Objectives



- 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

Prerequisites

- Introduction to Creo Parametric or equivalent experience

Audience

- This course is intended for engineers who are involved in the 3-D routing of mechanical piping systems and industrial piping systems. People in related roles will also benefit from taking this course.

Agenda

Day 1

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

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

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