



Duration: 2 Days

Prerequisites:

- SolidWorks Essentials

Course Outline

Piping and Tubing explains how to create, edit and manage Piping and Tubing routes, from the critical routing components and their design requirements to the sub-assemblies that contain the routes.

The main topics covered include:

Lesson 1: Fundamentals of Routing

- What is Routing?
- Routing Setup
- Routing Library Manager
- General Routing Settings

Lesson 2: Piping Routes

- Pipes and Piping Components
- Routing Assembly Templates
- Creating a Piping Route
- Auto Route
- Route Specification Templates
- Editing a Route
- Routing Along Existing Geometry

Lesson 3: Piping Fittings

- Drag and Drop a Fitting
- Creating Custom Fittings

Lesson 4: Tubing Routes

- Tubes and Tubing Components
- Flexible Tubing with Auto Route
- Orthogonal Tubing Routes with Auto Route
- Bend and Spline Errors
- Starting a Tube Route On the Fly
- Repairing Bend Errors
- Tubing Drawings

Lesson 5: Macros

- Pipe Penetrations
- Flange to Flange Connections
- Pipe Spools
- Copying Routes
- Editing Piping Routes
- Editing for Obstructions
- Piping Drawings

Lesson 6: Creating Routing Components

- Routing Library Parts
- Libraries
- Creating Routing Library Parts
- Routing Library Manager
- Pipe and Tube Components
- Fitting Components
- Routing Functionality Points
- Routing Geometry
- Part Validity Check
- Design Table Check
- Component Attributes
- Elbow Components
- Multi-Body Components
- Equipment
- Assembly Fittings

Lesson 7: Using P&ID Files

- Piping and Instrumentation
- Adding a Pipe
- Pipe with Multiple Lines
- Pipes with In-line Fittings
- Process Drawings

Lesson 8: Piping Skids

- Grid System Feature
- Weldments
- Walk-through Animations
- Avatar Paths

Lesson 9: Using SolidWorks Content

- Review of Configurations
- Design Tables
- Review of Top Down Design
- Review of Design Library Task Pane
- Review of 3D Sketching

Please do not hesitate to contact us for registration and further information

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