

Course Duration: 2 day

Prerequisites: SolidWorks Essentials,

Description: Routing - 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 subassemblies that contain the routes.

Lesson 1: Fundamentals of Routing

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

Lesson 2: Piping Routes

- Piping Routes
- Pipes and Piping Components
- Routing Assembly Templates
- Creating a Piping Route
- Auto Route
- Route Specification Templates
- Editing a Route

Lesson 3: Piping Fittings

- Pipe Fittings
- Drag and Drop a Fitting
- Creating Custom Fittings

Lesson 4: Tubing Routes

- 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: Piping and Tubing Changes

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

Lesson 6: Pipe and Tube Routing Components

- Routing Library Parts
- Libraries
- Creating Routing Library Parts
- Routing Library Manager
- Pipe and Tube Parts
- Pipe Parts
- Fitting Parts
- Routing Functionality Points
- Elbow Parts
- Tube Parts
- 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

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

Lesson 9: Using SolidWorks Content

- Using SolidWorks Content

Appendix A: Review Section

- Review of Configurations
- A Note About File References
- Design Tables
- Review of Top Down Design
- Editing Options
- Review of Design Library Task Pane
- Review of 3D Sketching



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