



SolidWorks Routing – Piping & Tubing

Prerequisites	Length	Description
SolidWorks Essentials or equivalent experience	2 Days	This Routing course 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.

Fundamentals of Routing

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

Piping Routes

- Routing Templates
- Creating and modifying Piping Routes
- Auto Route
- Using Routing Components with Auto Route
- Drag & Drop a Component
- Pipes & Piping Components
- Creating Custom Components
- Interferences and Clearances

Tubing Routes

- Starting a Tube Route On The Fly
- Tubing Routes
- Flexible Tubing with Auto Route
- Orthogonal Tubing Routes with Auto Route
- Tubes & Tubing Components
- Bend & Spline Errors
- Tubing Drawings

Piping & Tubing Changes

- Pipe Penetrations
- Editing for Obstructions
- Flange to Flange Connections
- Piping Drawings

Pipe & Tube Routing Components

- Routing Library Parts, Libraries
- Creating Routing Library Parts
- Pipe, Fittings, Elbow & Tube Parts
- Routing Functionality Points
- Multi-Body Components
- Equipment
- Assembly Fittings

Using P&ID Files

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

Piping Skids

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

Using SolidWorks Content

- Creating a Routing Settings File

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

Did You Know?

- CAD MicroSolutions keeps class sizes small (8 or less) to ensure that each student receives personal attention.
- A professionally catered lunch is provided each day.
- Our instructors have the highest level of certifications attainable.
- Our professional training facility is outfitted with optimized Dell and Boxx Workstations with 3DConnexion 3D Controllers.
- All attendees that successfully complete the course receive an official course certificate from *Dassault Systemes SolidWorks Corporation* recognizing their achievement.

***The CAD MicroSolutions Difference:
Certified Training That Delivers Peak Performance***

