

SOLIDWORKS Routing: Piping and Tubing Course Outline

 DURATION/TIME 2 Days 9:00 am - 5:00 pm	 METHODOLOGY Practical hands-on with using computers, lecturing, discussions and case studies.
 PREREQUISITES Experience with the Windows™ Operating System. Attended SOLIDWORKS Essentials training course	 TARGET Application Engineer, R&D Engineer, Product Designer or Engineer, and Industrial Engineer

INTRODUCTION

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.

OBJECTIVE

At the end of this program participants are expected to:

- Create routed systems for pipe and tube applications.
- Create your own library parts which can be dragged and dropped into your pipe and tube routes.
- Create drawings of your routed systems with route information added.

CONTACT

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SOLIDWORKS Routing: Piping and Tubing

DAY 1

Course Outline:

Lesson 1: Fundamentals of Routing

- What is Routing: Piping and Tubing
- 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

Lesson 3: Advanced Piping Routes

- Advanced Piping Routes
- Editing a Route
- Routing Along Existing Geometry

Lesson 4: Piping Fittings

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

Lesson 5: Using SOLIDWORKS Content

- Using SOLIDWORKS Content

Lesson 6: Tubing Routes

- Tubing Routes
- Tubes and Tubing Components
- Flexible Tubing with Auto Route
- Orthogonal Tubing Routes with Auto Route
- Bend and Spline Errors
- Tubing Drawings

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SOLIDWORKS Routing: Piping and Tubing

DAY 2

Course Outline:

Lesson 7: Piping and Tubing Changes

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

Lesson 8: Creating Routing Components

- Routing Library Parts
- Libraries
- Creating Routing Library Parts
- Pipe and Tube Components
- Copying Routing Components
- Routing Library Manager
- Fitting Components
- Routing Functionality Points
- Routing Geometry
- Part Validity Check
- Design Table Check
- Component Attributes
- Elbow Components
- Valve Components

Lesson 9: Electrical Ducting, Cable Tray, and HVAC Routes

- Electrical Ducting, Cable Tray, and HVAC Routes
- Cables Tray Routes
- HVAC Routes
- Electrical Ducting Routes

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