



SolidWorks Routing – Electrical, Piping & Tubing

Prerequisites	Length	Description
SolidWorks Essentials or equivalent experience	3 Days	This Routing course explains how to create, edit and manage Piping, Tubing and Electrical 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

Basic Electrical Routing

- Adding Routing Components
- Start by 'Drag and Drop' Connector
- Auto Route
- Save to External File

Routing with Clips

- Routing Through Existing Clips
- Adding Clips while Auto Routing
- Editing a Route
- Working with Clips
- Splitting a Route

Electrical Routing Components

- Routing Library Parts Introduction
- Electrical Routing Library Parts
- Routing Component Wizard and Attributes

Standard Cables

- Creating, Using and Modifying Standard Cables
- Standard Cables Excel File
- Routing Templates

Electrical Data Import

- Review of Importing Data
- Routing Library Manager
- From/To Lists
- Route Properties and Guidelines
- Using Guidelines and Clips

Electrical Drawings

- Route Flattening and Detailing
- Annotation Flattening
- Flatten Route
- Highlight Search
- Manufacture Flattening

Electrical Ribbon Cables

- Ribbon Cable Components
- Auto Routing Ribbon Cables
- Using Ribbon Cable Clips
- Through Connectors
- Ribbon Cable Libraries

Electrical Conduits

- Rigid Conduit
- Orthogonal Routing with Auto Route
- Electrical Data in Conduits
- Manual Sketch Routing
- Flexible Electrical Conduit

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

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**

