



SOLIDWORKS ROUTING PIPING & TUBING

Who should attend:

Application Engineer
R&D Engineer
Piping Engineer
Industrial Engineer

Prerequisites:

Attended SOLIDWORKS
Essentials Course

Attended Assembly
Modeling Course

Basic understanding of
part design and drafting

Mechanical Design
Experience

Duration:

2 Days

Methodology:

Practical hands-on with
using computers,
lecturing, discussions
and case studies

Introduction

The SOLIDWORKS Pipe and Tube Routing course explains how to create, edit and manage pipe and tube routes, from the critical routing components and their design requirements to the sub-assemblies 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

IME CADCAM TRAINING CENTRE SDN BHD

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ROUTING PIPING & TUBING

Key Topics

Day 1

Course Outline:

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
- Route Specification Templates
- Editing a Route
- Routing along Existing Geometry

Lesson 3: Piping Fittings

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

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
- Adding Slopes
- Copying Routes
- Editing Piping Routes
- Editing for Obstructions
- Piping Drawings

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ROUTING PIPING & TUBING

Key Topics

Day 2

Lesson 6 : Pipe and Tube Routing Components

- Routing Library Parts
- Libraries
- Creating Routing Library Parts
- Routing Library Manager
- Fitting Components
- Routing Functionality Points
- Routing Geometry
- Part Validity Check
- Design Table Checks
- Component Attributes
- Elbow Components
- Assembly Routing Component

Lesson 7: Using P&ID Files

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

Lesson 8: Piping Skids

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

Lesson 9: Piping Skids

- Piping Skids
- Grid System Feature
- Weldments
- Avatar Path

Lesson 10: Piping Skids

- Using SOLIDWORKS Content

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