SOLIDWORKS Routing - Piping & Tubing Course
Gain credibility and get ahead with our SolidWorks Training & Certification

Duration: 2 Days
Prerequisites:
- SolidWorks Essentials

Course Outline

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 sub-assemblies that contain the routes.

The main topics covered include:

Lesson 1: Fundamentals of Routing
- What is Routing?
- Routing Setup
- Routing Library Manager
- General Routing Settings

Lesson 2: Piping Routes
- Pipes and Piping Components
- Routing Assembly Templates
- Creating a Piping Route
- Auto Route
- Route Specification Templates
- Editing a Route
- Routing Along Existing Geometry

Lesson 3: Piping Fittings
- Drag and Drop a Fitting
- Creating Custom Fittings

Lesson 4: 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: Macros
- Pipe Penetrations
- Flange to Flange Connections
- Pipe Spools
- Copying Routes
- Editing Piping Routes
- Editing for Obstructions
- Piping Drawings

Lesson 6: Creating Routing Components
- Routing Library Parts
- Libraries
- Creating Routing Library Parts
- Routing Library Manager
- Pipe and Tube Components
- Fitting Components
- Routing Functionality Points
- Routing Geometry
- Part Validity Check
- Design Table Check
- Component Attributes
- Elbow Components
- 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
- Grid System Feature
- Weldments
- Walk-through Animations
- Avatar Paths

Lesson 9: Using SolidWorks Content
- Review of Configurations
- Design Tables
- Review of Top Down Design
- Review of Design Library Task Pane
- Review of 3D Sketching

Please do not hesitate to contact us for registration and further information

e: sales@pentagonsolutions.com  t: +44 28 90455 355

Pentagon Solutions Ltd, Belfast Office: Suite 3 Teal Pavilion, 189 Airport Road West, Belfast, BT3 9ED. t: +44 28 90 455 355 f: +44 28 90 456 355
Cork Office: Unit 301, Harbour Point Business Park, Little Island, Cork, Ireland. t: +353 21 4232242
London Office: 3 The Drive, Jubilee House, Great Warley, Brentwood, CM13 3FR Tel: +44 (0)1268 772821