Users attending this course must have completed our SOLIDWORKS Essentials training course.

COURSE DETAILS:

Learn how to streamline the design of machinery, equipment, small facilities, or anything else that requires routing tubes, pipes along with electrical cables and harnesses. All it takes is SOLIDWORKS Routing, the powerful routed systems design application and fittings library that's fully integrated with SOLIDWORKS.

1: INTRODUCTION

- About this course
- Windows 7
- Use of colour

2: FUNDAMENTALS OF ROUTING

- What is routing?
- Routing setup
- Routing Library Manager
- General routing settings

3: PIPING ROUTES

- Pipes & piping components
- Routing assembly templates
- Creating a piping route
- Auto route
- Route specification templates
- Editing a route

4: PIPING FITTINGS

- Drag & drop a fitting
- Creating custom fittings

5: TUBING ROUTES

- Tubes & tubing components
- Flexible tubing & auto route
- Orthogonal tubing routes with auto route
- Bend & spline errors
- Starting a tube route on the fly
- Repairing bend errors
- Tubing drawings

6: PIPING & TUBING CHANGES

- Pipe penetrations
- Flange to flange connections
- Pipe spools
- Copying routes
- Editing piping routes
- Editing for obstructions
- Piping drawings

7: CREATING ROUTING COMPONENTS

- Routing library parts
- Libraries
- Creating routing library parts
- Routing library manager
- Pipe & 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

8: USING P&ID FILES

- Piping & instrumentation
- Adding a pipe
- Pipe with multiple lines
- Pipes with in-line fittings
- Process drawings

9: PIPING SKIDS

- Piping skids
- Grid system feature
- Weldments
- Walk-through animations
- Avatar paths

10: USING SOLIDWORKS CONTENT

- Using SOLIDWORKS content

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

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3S SOLIDWORKS