

## SOLIDWORKS Routing: Piping and Tubing – 2 Days (14h)

### 1. Fundamentals of Routing

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- What is Routing?
- Routing setup
- Routing Library Manager
- General Routing Settings

### 2. Piping Routes

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- Piping Routes
- Pipes and Piping Components
- Routing Assembly Templates
- Creating a Piping Route
- Auto Route
- Route Specification Templates

### 3. Advanced Piping Routes

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- Advanced Piping Routes
- Editing a Route
- Routing along existing Geometry

### 4. Piping Fittings

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

### 5. Tubing Routes

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

### 6. Piping and Tubing Changes

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- Piping and tubing changes
- Pipe penetrations
- Flange-to-flange connections
- Pipe spools
- Copying routes
- Adding slopes
- Editing piping routes
- Editing for obstructions
- Piping drawings

### 7. Creating Routing Components

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- 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

### 8. Electrical Ducting, Cable Tray, and HVAC Routes

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- Electrical ducting routes
- Cable tray routes
- HVAC routes

### 9. Using SOLIDWORKS Content

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- Using SOLIDWORKS content

**Course Objectives** : At the end of each course, students will know the capabilities of the software and will be able to use the learned features.

**Training Course** : Training is given in class at SolidXperts or online where each student has access to a workstation or online product version.

**Methodology** : Training is based on case studies demonstrated by the instructor. At the end of each lesson, time will be given for exercises.

**Competences Evaluation** : During the classwork, the instructor will correct the exercises on-demand and explain the solutions to the entire class if needed.

**Instructor** : SolidXperts trainers are Certified SolidWorks Instructors (CSWI) and authorized by Emploi-Québec.

**Course Materials** : One or more training manuals are included with the training course.

**Attestation** : A certificate will be given to each student at the end of the course to attest to the successful completion of the requirements for the course.

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