



HAGERMAN & COMPANY®

Inventor Tube & Pipe Design

2-day class

Learn the fundamental principles and recommended workflows for creating and documenting rigid tubing, flexible hose, and piping systems using Autodesk® Inventor® software. Hands-on exercises representing real-world, industry-specific design scenarios are included.

- **Introduction to Tube & Pipe**
 - About Tube and Pipe Designs
 - Tube and Pipe Environment
 - **Setup for Routes and Runs**
 - Tube and Pipe Files
 - Creating Tube and Pipe Assembly
 - Tube and Pipe Styles
 - Activating a Style
 - Tube and Pipe Content
 - Placing Library Fittings
 - Placing Authored Fittings
 - Connecting Fittings During Placement
 - Connecting Existing Fittings
 - Editing Fitting Connections
 - **Routes and Runs**
 - Creating Rigid Routes
 - Route Start Point
 - Sketching Route Segments
 - Autoroute Regions
 - Creating Derived Routes
 - Defining Gravity for a Self-Draining Route
 - 3D Orthogonal Route Tool
 - Placing Points Along an Axis
 - Creating Bends in Routes
 - Adding a Custom Bend Radius
 - Snapping to Points and Rotations
 - Aligning the Axes
 - Construction Lines
 - Editing Rigid Routes
 - Editing Sketched Routes
 - Editing Autoroute Regions
 - Editing Derived Routes
 - Trimming or Extending Segments
 - Controlling Tube and Pipe Updates
 - Editing Route Fittings and Styles
 - Adding Fittings to a Route
 - Changing a Fitting
 - Applying a New Style
 - Deleting Routes and Runs
 - Creating Flexible Hose Routes
 - Inserting Nodes
 - Editing Hose Route Nodes
 - Editing Hose Length
 - Edits for Hose Fittings
 - Check Minimum Bend Radius
 - Reuse of Routes and Runs
 - Managing Tube and Pipe Components in iAssemblies
- **Fittings and Components**
 - About Content Center
 - Installation Options
 - Adding a Custom Library
 - Configuring the Content Center File Path
 - Copying Content to a Custom Library
 - Transferring Library Content
 - Creating Custom Content
 - Authoring Tube and Pipe Content
 - Publishing Tube and Pipe Content
 - Document Settings for Published Parts
 - Adding and Editing Family Column Values
 - Adding a Custom Display Name
 - Creating a New Style
 - Configuring a Self-Draining Style
 - Configuring Styles in Templates
 - **Documenting Tube and Pipe Assemblies**
 - About Representations
 - About Model States
 - Creating, Saving, and Activating Model States
 - Creating a Substitute Model State
 - Creating Drawing Views
 - Including Route Centerlines
 - Customizing a Parts List
 - Creating Bending Machine Files
 - Exporting ISOGEN Files