

## Autodesk Inventor training course - Tube and Pipe Design

### Course Description

Teaches the fundamental principles and recommended workflows for creating and documenting rigid tubing, flexible hose, and piping systems using Autodesk® Inventor®. This course includes hands-on exercises representing real-world, industry-specific design scenarios.

**Course duration:** 2 days  
**Courseware provided:** Yes

### Objectives

Upon completion of this course delegates will be able to use the recommended workflows and basic skills needed to design and document rigid tubing, flexible hose, and piping systems using Autodesk Inventor.

### Who Should Attend?

This courseware is designed for experienced Autodesk Inventor users.

### Pre-requisites

Delegates should have completed a *Autodesk Inventor Essentials* course or be familiar with the concepts taught in this course, and have a working knowledge of parametric part and assembly design using Autodesk Inventor.

An understanding of mechanical design validation or mechanical engineering principles is recommended but not essential.

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## Course Outline

### Day 1

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#### Introduction to Tube and Pipe

- Introduction to Tube and Pipe

#### Setup for Routes and Runs

- Setup for Routes and Runs
- Placing Initial Fittings

#### Routes and Runs

- Creating Rigid Routes
- Sketching Rigid Routes
- Editing Rigid Routes
- Working with Fittings in Rigid Routes

### Day 2

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#### Routes and Runs (cont.)

- Flexible Hose Routes
- Leveraging Routes and Runs

#### Fittings and Components

- Managing Libraries
- Creating Library Content
- Managing Library Content
- Creating Tube and Pipe Styles

#### Documenting Tube and Pipe Assemblies

- Representing Tube and Pipe Designs
- Documenting Routes and Runs
- Exporting Tube and Pipe Design Data

**Please note:** Course topics may be modified by the instructor based upon knowledge and skill level of the course participants.

