

Autodesk Inventor Tube and Pipe Design

Technical Education Services

Course Length: 2 days

The Autodesk Inventor Tube and Pipe Design training course instructs you on the use of the Inventor Tube and Pipe environment. Through a hands-on, practice-intensive curriculum, you will acquire the knowledge needed to design routed elements, including tubing, piping, and flexible hose. With specific tools to incorporate tube and pipe runs into digital prototypes, the Inventor Tube and Pipe environment provides rules based routing tools that select the correct fittings and helps the pipe run to comply with your standards for segment length, round-off increments, and bend radius, that you will learn to maximize.

Topics Covered

- Describe the tube and pipe environment and why you would use it.
- Set up routes and runs and place the initial fittings in your tube and pipe design.
- Create, edit, and manage routes for rigid pipe, rigid tube, and flexible hose designs.
- Manage content libraries, publish custom content to content libraries, and create new styles that use custom content.
- Document tube and pipe designs through the creation of 2D drawings and parts lists and export the 3D design data.

Prerequisites

This training course is designed for experienced users of the Autodesk Inventor software. The following is recommended:

- You should have completed the Autodesk Inventor Introduction to Solid Modelling training course, or have an equivalent understanding of the Autodesk Inventor user interface and working environments.
- Knowledge of part modelling, assembly modelling, and drawing view creation and annotation, is recommended.

Training Guide Contents

Chapter 1: Introduction to Tube and Pipe

- Lesson: Introduction to Tube and Pipe

Chapter 2: Setup for Routes and Runs

- Lesson: Setup for Routes and Runs
- Lesson: Placing Initial Fittings

Chapter 3: Routes and Runs

- Lesson: Creating Rigid Routes
- Lesson: Sketching Rigid Routes
- Lesson: Editing Rigid Routes
- Lesson: Working with Fittings in Rigid Routes
- Lesson: Flexible Hose Routes
- Lesson: Leveraging Routes and Runs

Chapter 4: Fittings and Components

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

Chapter 5: Documenting Tube and Pipe Assemblies

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

