

# Autodesk Inventor Professional Tube and Pipe Design

## Courseware Description

This courseware covers the fundamental principles and recommended workflows for creating routed systems for plant and industrial equipment design using Autodesk Inventor® Professional. Students learn the proper techniques and recommended workflows for designing and documenting rigid tubing, flexible hose, and piping systems.

Hands-on exercises representing real-world, industry-specific design scenarios are included.

**Suggested Course Duration:** 1 day  
**Pages:** 210  
**Onscreen Exercises Included?** Yes

## Objectives

The primary objective of this courseware is to teach students the recommended workflows and basic skills needed to design and document rigid tubing, flexible hose, and piping systems using Autodesk Inventor Professional.

## Who Should Attend

This courseware is designed for experienced Autodesk Inventor users.

## Prerequisites

Students should have a thorough understanding of Autodesk Inventor parametric part and assembly design. A working knowledge of mechanical design validation or mechanical engineering experience is a plus. It is recommended that the student have a working knowledge of Microsoft® Windows® XP, Microsoft® Windows® 2000, or Microsoft® Windows® NT 4.0.

# Course Outline

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## Introduction to Tubing and Piping

- Introduction to the Tube and Pipe Application
- Setup for Tube and Pipe Routes and Runs

## Creating Routes and Runs

- Introduction to Routes
- Creating Rigid Pipe Routes
- Creating Tube Routes
- Creating Flexible Hose Routes

## Editing Routes and Runs

- Editing Routes and Runs
- Editing Rigid Pipe Routes

## Fittings and Components

- Working With Fittings in Rigid Routes
- Editing Flexible Hose Routes and Runs
- Creating Fittings and Conduit
- Using Published Content

## Documenting Tube and Pipe Assemblies

- Documenting Routes and Runs

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**Note:** The suggested course duration is a guideline. Course topics and duration may be modified by the instructor based upon the knowledge and skill level of the course participants.

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