

Autodesk Inventor training course – Sheet Metal Design

Course Description

Teaches the fundamental principles of sheet metal design using Autodesk® Inventor™ by teaching how to create and manage sheet metal designs. The course focuses on basic sheet metal concepts and techniques, and builds on them to include complex modeling practices for forming sheet metal parts, assemblies and drawing with hands-on exercises representing real-world, industry-specific design scenarios.

Course duration: 2 days
Courseware provided: Yes.

Objectives

Upon completion of this course the student will be able to:

- Describe terms and sheet metal processes that are used in the industry.
- Review various construction techniques.
- Create and automate sheet metal design tools.
- Document sheet metal designs.

Who Should Attend?

This course is designed for the current Autodesk Inventor user who wants to learn the essential tools and best practices for sheet metal design using Autodesk Inventor.

Pre-requisites

Delegates should have completed an *Autodesk Inventor Essentials* course, or be familiar with the concepts taught in this course, and have a working knowledge of:

- The Autodesk Inventor user interface and working environments.
- Parametric solid modeling concepts and mechanical engineering or design principles.
- Microsoft® Windows®.

Course Outline

Day 1

Sheet Metal Overview

- Introduction to Sheet Metal
- Sheet Metal Design Methods
- Sheet Metal Styles

The Sheet Metal Environment

- Faces
- Flanges
- Contour Flanges
- Hems

Sheet Metal Operations

- Cutting
- Sheet Metal Punching
- Corner Seams
- Folding
- Bending
- Creating Holes
- Creating Corner Rounds and Corner Chamfers
- Work Features
- Pattern Features
- Mirror Features

Day 2

Sheet Metal Design Techniques

- Sheet Metal Design Approaches
- Using Skeletal Models
- Using Legacy DXF™ and DWG™ Flat Layout Geometry
- Using Legacy 3D Geometry
- Complex Sheet Metal Creation Techniques
- Punch Library Setup

Using Flat Patterns

- Flat Pattern Creation and Cleanup
- DXF and DWG Export

Documenting Sheet Metal Designs

- Creating Sheet Metal Drawings
- Sheet Metal Documentation
- Notating Bend and Punch Tables

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

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