Autodesk Inventor Sheet Metal Design

2 Day Course

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.

Users should have completed an Autodesk Inventor for New Users course and have a working knowledge of the following:

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

Objectives

This course covers the fundamental principles of sheet metal design using Autodesk Inventor. Students learn 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 modelling practices for forming sheet metal parts, assemblies, and drawings. Hands-on exercises representing real-world, industry-specific design scenarios are included.

Agenda

The primary objective of this course is to teach delegates the skills needed to create and document sheet metal parts.

Note: We normally train on the latest version.

During the course delegates will cover:

Day 1:

Sheet Metal Overview
- Introduction to Sheet Metal
- Sheet Metal Design Methods
- Sheet Metal Rules

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
- Lofted Flanges, Rips, and Contour Roll 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
- Bend and Punch Tables
- Cosmetic Centerlines and Bend Order

The above may be varied to suit client's preferences and requirements.

Qualifications

On completion of the course you will be presented with an Autodesk Authorised Training Certificate.

Customer Testimonial

"The trainer was excellent and he was able to tailor the instruction to suit all of the attendees needs. He answered all of our questions whilst still keeping to the course syllabus. All in all a very good course."

Tony Gunter, Highways and Transportation Officer at Stockport Council