Course: Solid Edge Sheet Metal
Days: 2 days
Version: Solid Edge 2020

At Course Completion

Students will have learned how to utilize Solid Edge Sheet Metal to design production level parametric (ordered) models of sheet metal parts, and synchronous models of sheet metal parts.

Prerequisites

Here are the standard pre-requisites for the training course. Potential students should have or completed the following prior to the class:

• Mechanical Design Experience
• Windows Experience
• Completion of the Solid Edge Fundamentals course.

This course builds upon techniques taught in the Fundamentals course. It is assumed that any student taking this course will already know how to sketch in both ordered and synchronous paradigms, and has a good understanding of the Solid Edge user interface.

Course Content

Course consists of;

• PowerPoint's to support the Instructor's lecture.
• Instructor lead demonstrations.
• Instructor lead activities.
• Independent practical activities to reinforce the lessons.

Topics:

Day 1

➢ **Module 1: Sheet Metal Design Introduction**
Introduction to the Sheet Metal Environment
• Tab command
• Contour Flange command
• Lofted Flange command
• Lofted bends and bend lines
• Vertex mapping

➢ **Module 2: Additional features**
• Flange command
• Bend commands
• Jog Command

➢ **Module 3: Sheet metal features Sheet Metal features**
• Closed Corner
• Break Corner
• Hems
• Cutout features
• Holes
• Patterns
• Etch command

➢ **Module 4: Deformation Features**
• Deformation features
• Punch (Emboss) in Sheet Metal & Part
• Deform Sheet Metal Features Across Bends

➢ **Module 5: Flattening and Drafting**

• Flat Patterning

• Modeling in the Flat Pattern

• Save As Flat (DXF Output)

• Placing Flat Pattern in Draft

• Bend Tables

Day 2

➢ **Module 6: Synchronous Sheet Metal**

Synchronous features commands

• Tab

• Flange

• Contour Flange

• Close bend corners

• Hem

• Jog

• Bend

➢ **Module 7: Synchronous Sheet Metal Features Synchronous Sheet Metal Features**

• Feature Origin

• Feature Profiles

• Louvers

• Dimple and Drawn Cutout

• Bead and Gusset Features

• Break Corner

• Cutout Across Bends

➢ **Module 8: Synchronous functions unique to Sheet Metal**

• Synchronous Sheet Metal Manipulation

• Flat Patterns

• Integrated modeling

➢ **Module 9: Sheet Metal Conversion Tools**

• Covert to Sheet Metal

• Rip Corners

• Ordered Part to Sheet Metal convert

• Create Blank – Flatten anything

Note: The number of lessons covered on any given day could vary due to the progress of the class.