

Course: Solid Edge Sheet Metal

Duration: 2 days

Version: SE 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.**
- Have a good understanding of the part modeling in both **Ordered** and **Synchronous** paradigms.

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 and model parts, in both ordered and synchronous paradigms, and has a good understanding of the Solid Edge user interface.

Course Content

Course consists of;

- 9 Video Lectures (PowerPoint's to support the Instructor's lecture).
- 62 Instructor lead video demonstrations.
- 30 practical activities to reinforce the lessons.
- Solution videos for each activity.

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: Sheet Metal Design Additional features

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 student.