

SolidWorks Sheet Metal Course



Length: 1 day

Prerequisites: SolidWorks Essentials

Description: Sheet Metal and Weldments teaches you how to build sheet metal parts using SolidWorks mechanical design automation software. Building standalone sheet metal parts, and converting conventional parts to sheet metal, including in assembly context, are covered.



Lesson 1: Modeling Sheet Metal Parts

- ❖ Sheet Metal Methods
- ❖ Sheet Metal Toolbar
- ❖ Designing with Sheet Metal Features
- ❖ Miter Flanges
- ❖ Edge Flanges
- ❖ Bend Angles
- ❖ Adding a Tab
- ❖ Flat Pattern
- ❖ Cuts
- ❖ Sheet Metal Parts in Drawings

Lesson 2: Sheet Metal Forming Tools

- ❖ Standard Tools
- ❖ Creating a Custom Forming Tool

Lesson 3: Additional Sheet Metal Features

- ❖ Edge Flanges and Closed Corners
- ❖ Curved Edge Flanges
- ❖ Hems
- ❖ Designing in Flat
- ❖ Existing Rounds
- ❖ Using Symmetry
- ❖ Manual Relief Cut
- ❖ Break Corner
- ❖ Jog Feature
- ❖ Lofted Bends
- ❖ Bend Deviation

Lesson 4: Converting Parts to Sheet Metal

- ❖ Sheet Metal Topics
- ❖ Convert to Sheet Metal Method
- ❖ Recognize Bends Method
- ❖ Convert to Sheet Metal
- ❖ Opening IGES Files
- ❖ Using the Rip Feature
- ❖ Adding Bends in Place of Sharp Corners
- ❖ Sheet Metal Features
- ❖ Making Changes
- ❖ Adding a Welded Corner
- ❖ Unrolling Cones and Cylinders
- ❖ Process Plans