



**SOLIDWORKS SHEET METAL**

PREREQUISITES	LENGTH	DESCRIPTION
<ul style="list-style-type: none"> <li>■ SolidWorks Essentials or equivalent experience.</li> </ul> <p><b>► BASIC FLANGE FEATURES</b></p> <ul style="list-style-type: none"> <li>■ What are Sheet Metal Parts?</li> <li>■ Sheet Metal Methods</li> <li>■ Unique Sheet Metal Items</li> <li>■ Flange Method</li> <li>■ Base Flange/Tab</li> <li>■ Sheet Metal Parameters</li> <li>■ Editing Sheet Metal Parameters</li> <li>■ Sheet Metal Bend Features</li> <li>■ Edge Flanges</li> <li>■ Edge Flanges on Curved Edges</li> <li>■ Cuts in Sheet Metal</li> <li>■ Exercise 1: Sheet Metal Bracket</li> <li>■ Exercise 2: Flange Features</li> <li>■ Exercise 3: Edit Flange Profile</li> <li>■ Exercise 4: Sheet Metal Box</li> <li>■ Exercise 5: Assorted Framing Hangers</li> </ul> <p><b>► WORKING WITH THE FLAT PATTERN</b></p> <ul style="list-style-type: none"> <li>■ Working with the Flat Pattern</li> <li>■ Flat Pattern Settings</li> <li>■ Corner Trim Features</li> <li>■ Producing the Flat Pattern</li> <li>■ Drawing Document Properties</li> <li>■ Sheet Metal Tables</li> <li>■ Exporting the Flat Pattern</li> <li>■ Exercise 6: Flat Pattern Settings</li> <li>■ Exercise 7: Working with Corners</li> </ul>	<p>2 Days</p>	<ul style="list-style-type: none"> <li>■ Sheet Metal 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.</li> </ul> <p><b>► ADDITIONAL SHEET METAL TECHNIQUES</b></p> <ul style="list-style-type: none"> <li>■ Additional Sheet Metal Methods</li> <li>■ Designing from the Flat</li> <li>■ Sketched Bend Feature</li> <li>■ Jog Feature</li> <li>■ Unfold and Fold</li> <li>■ Swept Flange</li> <li>■ Lofted Bends</li> <li>■ Lofted Bends in the Design Library</li> <li>■ Exercise 8: Sheet Metal from Flat</li> <li>■ Exercise 9: Jogs and Hems</li> <li>■ Exercise 10: Fold and Unfold</li> <li>■ Exercise 11: Conical Swept Flange</li> <li>■ Exercise 12: Lofted Bends</li> <li>■ Exercise 13: Using Symmetry</li> </ul> <p><b>► CONVERTING TO SHEET METAL</b></p> <ul style="list-style-type: none"> <li>■ Sheet Metal Conversion</li> <li>■ Imported Geometry to Sheet Metal</li> <li>■ Adding Rips</li> <li>■ Insert Bends</li> <li>■ Converting Cones and Cylinders</li> <li>■ Convert to Sheet Metal</li> <li>■ Exercise 14: Importing and Converting</li> <li>■ Exercise 15: Unrolling a Cylinder</li> <li>■ Exercise 16: Converting to Sheet Metal Practice</li> <li>■ Exercise 17: Convert with Rips</li> <li>■ Exercise 18: Sheet Metal Hopper</li> </ul>



### SOLIDWORKS SHEET METAL

#### ► **MULTI BODY SHEET METAL PARTS**

- Multibody Sheet Metal Parts
- Multi bodies with Base Flange
- Sheet Metal Parameters for Multi bodies
- Cut List Item Properties for Multibodies
- Flat Pattern Drawing Views for Multibodies
- Cut List Balloon Annotations
- Exporting to DXF/DWGs with Multibodies
- Convert with Multibodies
- Hiding and Showing Bodies
- Using Split with Sheet Metal Parts
- Patterning for Multibodies
- Using Edge Flanges to Merge Bodies
- Interfering Bodies
- Combining Sheet Metal with Other Bodies
- Exercise 19: Toolbox
- Exercise 20: Mirroring and Merging Bodies
- Exercise 21: Sheet Metal Trailer

#### ► **FORMING TOOLS & GUSSETS**

- Sheet Metal Forming Tools
- Standard Forming
- Form Tool Features in the Flat
- Part Document Properties
- Custom Forming Tools
- Split Line
- Forming Tool
- Form Tools in Drawings
- Sheet Metal Gusset
- Exercise 22: Forming Tool
- Exercise 23: Sheet Metal Gusset

#### ► **ADDITIONAL SHEET METAL FUNCTIONS**

- Additional Sheet Metal Functions
- Cross-Breaks
- Vent Features
- Mirror Parts
- Tab and Slot
- Process Plans
- Sheet Metal Costing