



SolidWorks Sheet Metal & Weldments 2012 Training Course

Course Outline Duration: 2 days • Prerequisites: SolidWorks Essentials

- LESSON 1** Sheet Metal Flange Method
- LESSON 2** Sheet Metal Convert Method
- LESSON 3** Multibody Sheet Metal Parts
- LESSON 4** Sheet Metal Forming Tools

- LESSON 5** Additional Sheet Metal Features and Techniques
- LESSON 6** Weldments
- LESSON 7** Weldment Drawings
- LESSON 8** Working with Pipes and Tubing



Training Content

LESSON 1

Sheet Metal Flange Method

- What are Sheet Metal Parts?
- Sheet Metal Methods
- Base Flange
- Flat Pattern
- Edge Flanges
- Editing Sheet Metal Settings
- Cuts in Sheet Metal
- Break Corner
- Sheet Metal Costing
- Sheet Metal Parts in Drawings

LESSON 2

Sheet Metal Convert Method

- Sheet Metal Conversion Topics
- Converting to Sheet Metal
- Imported Geometry to Sheet Metal
- Using the Rip Feature
- Adding Bends in Place of Sharp Corners
- Sheet Metal Features
- Making Changes
- Adding a Welded Corner

LESSON 3

Multibody Sheet Metal Parts

- Multibody Sheet Metal Parts
- Methods to Create Multibody Sheet Metal Parts
- Creating Multibodies by Sketching
- Miter Flange
- The Cut List Folder
- Cuts using Multibodies
- Patterning Sheet Metal Bodies
- Sheet Metal Properties
- Multibody Drawings
- Using Mirror and Insert Part
- Interfering Bodies
- Exporting Sheet Metal Bodies
- Using Split

LESSON 4

Sheet Metal Forming Tools

- Sheet Metal Forming Tools
- Modifying an Existing Forming Tool
- Creating a Custom Forming Tool

LESSON 5

Additional Sheet Metal Features and Techniques

- Additional Sheet Metal Features
- Swept Flange
- Using Symmetry
- Additional Modeling Techniques
- In-Context Methods
- Process Plans

LESSON 6

Weldments

- Weldments
- Structural Members
- Groups vs. Structural Members
- Manual Trimming of Structural Members
- Adding Plates
- Gussets and End Caps
- Using Symmetry
- Profile Sketches
- Working with Weldments
- Managing the Cut List
- Custom Properties
- Representing Welds

LESSON 7

Weldment Drawings

- Weldment Drawings

LESSON 8

Working with Pipes and Tubing

- Working with Pipes and Tubing
- 3D Sketching
- Weldments and Sheet Metal in Assemblies

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