

S solidworks invenio

Training SolidWorks Sheet Metal

Description	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.
Prerequisites	SolidWorks Essentials course
Duration	2 Days

Course Outline

Introduction	About This Course
Lesson 1	Basic Flange Features
	What are Sheet Metal Parts?
	Sheet Metal Methods
	Unique Sheet Metal Items
	Flange Method
	Base Flange/Tab
	Sheet Metal Parameters
	Sheet Metal Bend Features
	Flat-Pattern Feature
	Additional Flange Features
	Editing the Flange Profile
	Edge and Miter Flanges
	Hem Feature
	Tab Features
	Cuts in Sheet Metal
Lesson 2	Working with the Flat Pattern
	Working with the Flat Pattern
	Flat Pattern Settings
	Features for Manufacture
	Corner-Trim Feature
	Corners in the Formed State
	Closed Corner and Corner Relief
	Break Corner/Corner Trim
	Producing the Flat Pattern
	Sheet Metal Cut List Properties
	 Flat Pattern Drawing Views and Properties
	Drawing Document Properties
	Sheet Metal Tables
	Cut List Properties as a Note
	Exporting the Flat Pattern





Lesson 3	Additional Sheet Metal Techniques Additional Sheet Metal Methods Designing from the Flat Sketched Bend Feature Jog Feature Adding Features in an Unfolded State Unfold and Fold Swept Flange and Flat Pattern options Lofted Bends Lofted bends in the Design Library
Lesson 4	Converting to Sheet Metal Sheet Metal Conversion Insert Bends Method Imported Geometry to Sheet Metal Adding Rips Insert Bends Making Changes Welded Corner Converting Cones and Cylinders Convert to Sheet Metal
Lesson 5	Multibody Sheet Metal Parts Multibodies with Base Flange Sheet Metal Parameters for Multibodies 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
Lesson 6	Forming Tools and Gussets Sheet Metal Forming Tools Standard Forming Tools Form Tool Features in the Flat Part Document Properties Custom Forming Tools Split Line Forming Tool Form Tools in Drawings Sheet Metal Gusset
Lesson 7	Additional Sheet Metal Functions Cross-Breaks Vent Features Mirror Part Tab and Slot Process Plans and Costing





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Training SolidWorks Weldments

Description	Weldments teaches you how to create welded structures with standard structural members. Weld beads are also covered.
Prerequisites	SolidWorks Essentials course
Duration	1 Day

Course Outline

Introduction	About This Course
Lesson 1	 Weldment Features Weldments Structural Members Groups vs Structural Members Adding Plates and Holes Gussets and End Caps Using Symmetry Advantages and Limitations of a Multibody Part
Lesson 2	 Working with Weldments Managing the Cut List Cut List Item Names Accessing Properties Cut-List Properties Dialogue Structural Member Properties Adding Cut List Properties Bounding Boxes in Weldments Generating Cut List Items Custom Structural Member Profiles Defining Material Creating Custom Profiles Standard or Configured Profiles Inserting Existing Parts When to Use an Assembly
Lesson 3	 Configuring and Detailing Weldments Weldment Configurations Post-Assembly Machining Features Weldment Drawings Drawing Views of Individual Bodies Representing Welds
Lesson 4	 Working with Bent Structural Members Working with Bent Structural Members 3D Sketching

