

Course: SOLIDWORKS Sheetmetal

MFG

Description

Learn how to create complex sheetmetal parts. You will learn how to build complex sheet metal models (Standalone or multibody) by using the various flange features, or converting solid bodies directly into sheet metal parts. You will also learn how to apply forming tools, create flat patterns and how to detail parts in a drawing.

Training objectives

On completion of this course you will be able to create sheet metal parts and apply sheet metal features. Import sheet metal parts from other CAD systems and convert them into Solidworks sheetmetal parts. Create sheet metal parts from within your assembly documents.

Prerequisites

Mechanical design experience. Experience with Windows Operating System.

Completed the SOLIDWORKS Essentials training course, or equivalent.

At least one month using SOLIDWORKS software.

Skills you will acquire

How to apply Edge and Miter Flanges. Ability to add Tabs, Hems, and cuts. Convert solids to sheetmetal.

Who should attend

SOLIDWORKS users who need to learn how to model sheet metal parts that will be manufactured using a variety of forming processes.

Delivery mode



Face-to-face



Virtual classroom

Duration



2 days OR 10 hours

ELITE 190 CLUB
Subscription
Service 2018



Course Outline

Introduction

- About This Course

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 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
- Mitre 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
- Using Symmetry
- Additional Modelling Techniques
- In-Context Methods
- Process Plans