



## SOLIDWORKS 2007: SHEET METAL

**Objective:** Sheet Metal and Weldments teaches you how to build sheet metal parts using SolidWorks mechanical design automation software. Building standalone sheet metal parts, converting parts to sheet metal, and modeling sheet metal parts in the context of an assembly are covered.

**Prerequisites:** Mechanical design experience; experience with the Windows™ operating system.

**Duration:** 1-Day (8 hours)

### COURSE OUTLINE

The topics covered in this course are:

#### **Lesson 1: Modeling Sheet Metal Parts**

- Sheet Metal Methods
- Stages in the Process
- Sheet Metal Toolbar
- Designing with Sheet Metal Features
- Sheet Metal Features
- Miter Flange
- Edge Flanges
- Adding a Tab
- Flat Pattern
- Cuts
- Sheet Metal Forming Tools
- Bend Angles
- Sheet Metal Parts in Drawings
- Edge Flanges and Closed Corners
- Curved Edge Flanges
- Designing in Flat
- Existing Rounds
- Using Symmetry
- Manual Relief Cut
- Break Corner
- Jog Feature
- Lofted Bends
- Bend Deviation

#### **Lesson 2: Converting Parts to Sheet Metal**

- Sheet Metal Topics
- Recognize Bends Method
- Opening IGES Files
- Using the Rip Feature
- Adding Bends in Place of Sharp Corners
- Sheet Metal Features
- Making Changes
- Sheet Metal from Shelled Parts
- Unrolling Cones and Cylinders
- Process Plans

#### **Lesson 3: Modeling Sheet Metal In the Context of an Assembly**

- Sheet Metal Topics
- In-Context Sheet Metal Parts
- Adding a New Part into an Assembly
- Appearance During Part Editing
- Building Edge Flanges In Context
- Building Miter Flanges In Context
- Hems
- Edit Assembly

ASIA EDUCATIONAL ACADEMY

亚洲国际教育语言学院

No: 22-2, Lorong Batu Nilam 4B, Bandar Bukit Tinggi, 41200 Klang, Selangor D.E, Malaysia

Tel: +603-3324 9870 Fax: +603-3324 9806

Email: aeamalaysia@gmail.com / acesilmy@yahoo.com

#### **PETALING JAYA**

30A, Jalan PJS 1/46,  
46150 Petaling Jaya,  
Selangor.  
Tel: + 60 3 – 7783 6866  
Fax: + 60 3 – 7781 1185

#### **PENANG**

92A, Jalan Perai Jaya 2,  
13700 Prai,  
Penang  
Tel : + 60 4 – 399 5571  
Fax : + 60 4 – 399 5572

#### **MELAKA**

PT 1626,  
Kws. Perindustrian Krubong,  
Mukim Krubong, 75250 Melaka.  
Tel: + 60 6 – 337 3039  
Fax: + 60 6 – 334 4008

#### **JOHOR**

11-A, Jalan Jati 2, Taman Nusa  
Bestari Jaya Bandar Nusa Jaya,  
81300 Skudai, Johor  
Tel: + 60 7 – 512 7978  
Fax: + 60 7 – 512 2162