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Up Coming Course

RM1060



*Price quoted is inclusive of 6% GST

Date: To be Advised

Time: 10am-5pm

Duration: 3 Days /18 Hours

Venue 1: Bandar Puteri, Puchong, Malaysia

Venue 2: Plaza Mahkota, Melaka, Malaysia

Why and for who?

The aim of the Autodesk Inventor 2013 Workshop is to explore Autodesk Inventor's powerful functionalities in Part Modeling, Assembly, Drawing, Presentation, Animation, and Rendering.

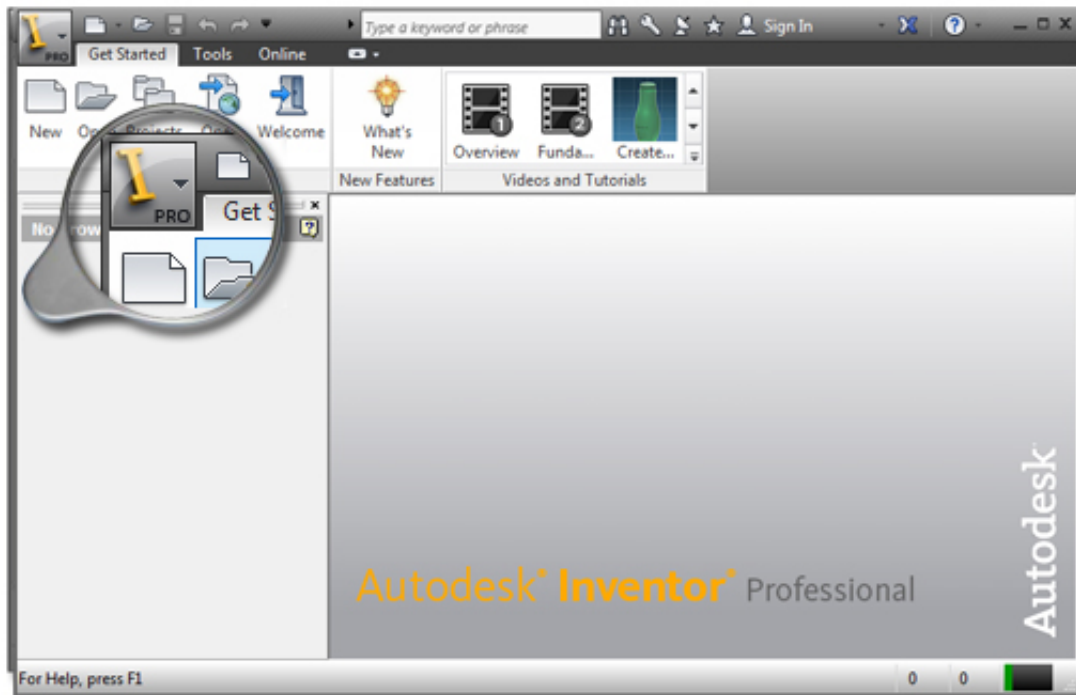
The training will be started with **Sketches** with Parametric Constraints, followed by making them to **3D Geometry** with extrude, revolve, sweep, fillet, chamfer features. Advanced **Part Modeling** techniques including Hole Pattern, Shell, Loft will be explored.

Inventor's specialized tools for **Plastic Part, Frame, Sheet Metal** can help you build the model quickly and easily. These tools can save you hours of work and efforts.


Generating **Drawing Views** including Orthographic, Section, Auxiliary, Isometric from the 3D Geometry will be demonstrated. Advanced Drawing techniques including Break Out View, Break View, Slice View will be covered also.

Assemble the parts, making use of **Content Center** and **Design Accelerators** to calculate the load, life time, and generate standard components such as Shaft, Bolts and Nuts, Bearing, Gear will be the interesting topics for this workshop. Advanced Assembly techniques such as Constrain, Representations are also covered.

Exploded View in Presentation to pull the assembly apart, is another good documentation to present. **Render** your model looked as in real life and **animate** the model to visual the mechanism of moving parts, will be taught in this workshop.



Inventor 2013 Interface

 cempaka technology
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What will you learn?

During the workshop, we provide step-by-step instructions on :

Introduction

- ~ Working with Project Files
- ~ Exploring Inventor GUI
- ~ Using Visualization Tools

Part Modeling

- ~ Defining Parametric Sketch
- ~ Creating 3D Geometry

Using Styles and Templates

- ~ Working with Styles
- ~ Defining Title Block
- ~ Using Engineer's Notebook
- ~ Saving a Template

Advanced Part Modeling

- ~ Projecting a 3D Sketch
- ~ Using Loft, Sweep, Shell tools
- ~ Using Engineer's Notebook
- ~ Building Hole Pattern
- ~ Tutorial 1: Creating Bottle Part

Plastic Part Modeling

- ~ Creating Plastic Casing
- ~ Converting Bodies to Components
- ~ Draft Analysis

Drawing

- ~ Drawing Viewing of a Part
- ~ Creating Drawing
- ~ Editing Drawing Views
- ~ Adding Details to Drawing Views

Assemblies

- ~ Creating Assembly
- ~ Applying Assembly Constraints
- ~ Working with Content Center
- ~ Using Design Accelerators – Bolted Connection

Advanced Drawing

- ~ Creating Advanced Drawing Views
- ~ Using Advanced Drawing Editing Tools
- ~ Using Advanced Drawing Annotation Tools

Advanced Assemblies

- ~ Using Representation
- ~ Using Design Accelerators – Bearing, Shaft, Spur Gear

Sheet Metal Part Modeling

- ~ Defining Sheet Metal Material Styles
- ~ Building Sheet Metal Components
- ~ Preparing the Part for Manufacture

Frame Modeling

- ~ Creating Metal Frames
- ~ Editing Metal Frames

Presentation

- ~ Creating Exploded View
- ~ Creating Rendering
- ~ Creating Animation

Sheet Metal Part Modeling

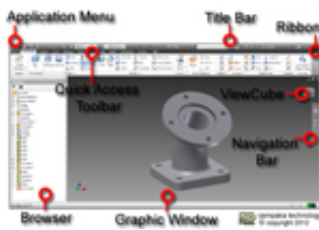
- ~ Defining Sheet Metal Material Styles
- ~ Building Sheet Metal Components
- ~ Preparing the Part for Manufacture

Weldment

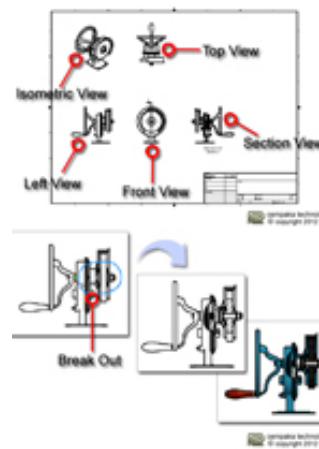
- ~ Coverting an Assembly
- ~ Calculating Weld
- ~ Preparing to Apply Weld Features
- ~ Applying Weld Features
- ~ Adding Machining Features to the Weldment
- ~ Documentating Welds

Workshop Projects

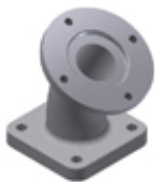
GUI



Advanced Drawing



Visual Styles



Realistic

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Shaded with Hidden Edges

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Wireframe with Hidden Edges

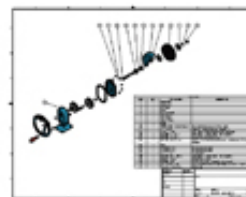
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Illustration

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Exploded View



Exploded View

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Shadow



Shadows

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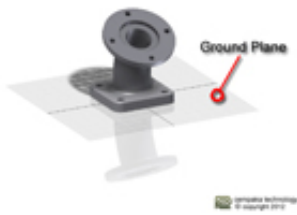
Plastic Modeling



Plastic Modeling

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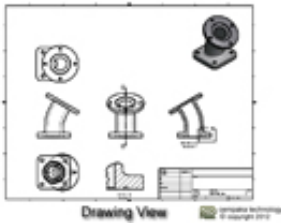
Ground Reflection, Plane



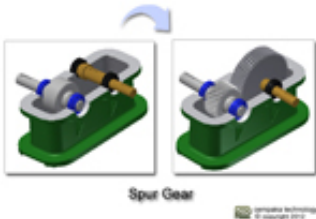
Lighting Style



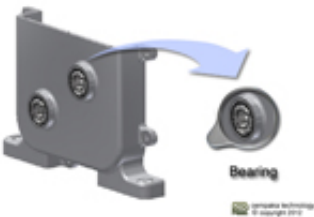
Drawing Views



Design Accelerators – Spur Gear



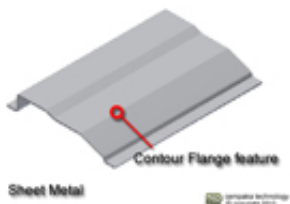
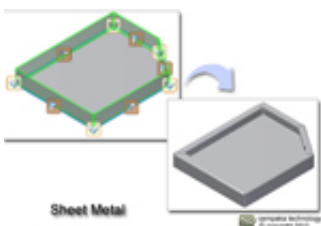
Design Accelerators – Bearing



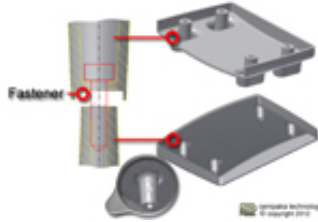
Frame Modeling



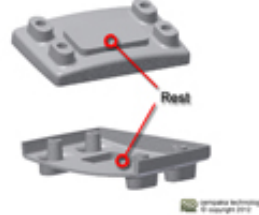
Sheet Metal Modeling



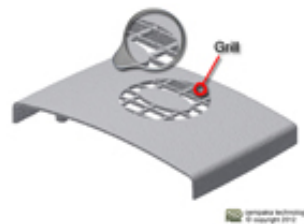
Plastic Modeling – Boss



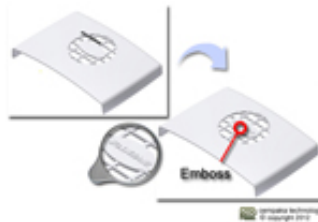
Plastic Modeling – Rest



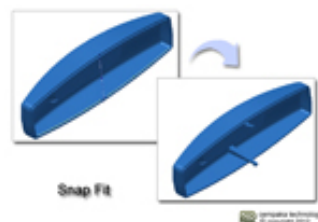
Plastic Modeling - Grill



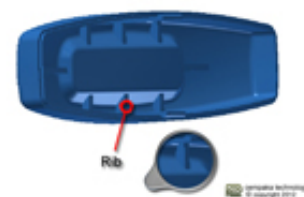
Plastic Modeling – Emboss



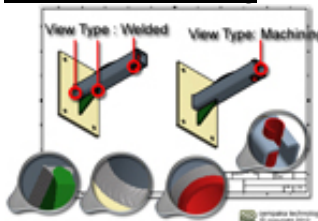
Plastic Modeling – Snap Fit



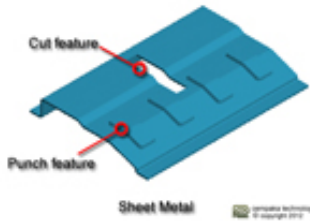
Plastic Modeling - Rib



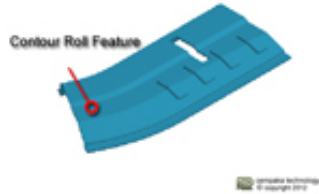
Weldment – Drawing



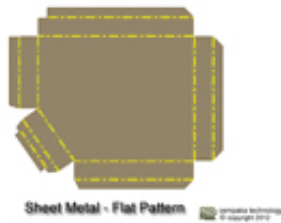
Sheet Metal Modeling – Punch, Cut



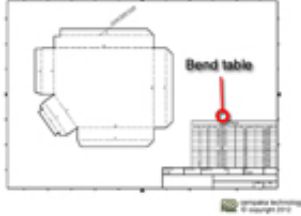
Sheet Metal Modeling – Contour Roll



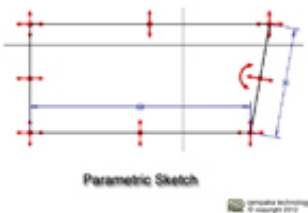
Sheet Metal Modeling – Flat Pattern



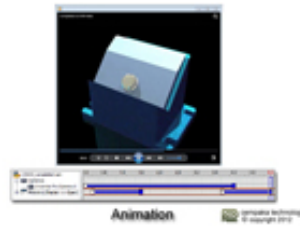
Sheet Metal Modeling – Drawing



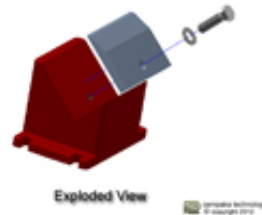
Parametric Constraints



Presentation – Animation



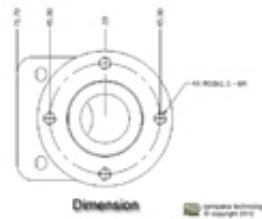
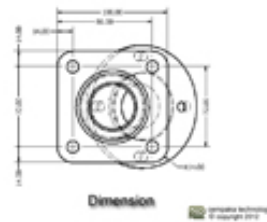
Presentation - Exploded View



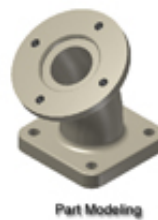
Presentation – Rendering Materials



Dimension



Part Modeling





Part Modeling

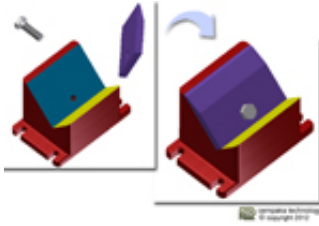
Autodesk Inventor
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Part Modeling

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Assemblies



What will you receive?

During the training, you will be given 260-pages manual and a CD containing the following:

~ Projects Files Lesson 1 to Lesson 13



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