



SOLIDWORKS





About Course

Introduces SolidWorks software as a 3-D design tool. Covers creation, retrieval and modification of 3-D and layout drawings using basic SolidWorks commands. Includes skills needed to create parametric models of parts and assemblies; generate dimensioned layouts; and Bill of Materials of those parts and assemblies.

SOLIDWORKS CURRICULUM

INTRODUCTION OF DESIGN CONCEPT AND PROCEDURE

Detailed Concept Of CAD
Need & Importance Of CAD
Overview about Actual Designing In Industries,
Fundamentals of Design And Its Implementation
Methods
All Characteristics Of Solid works To User Friendly
Atmosphere
Superiority Of Solid works With Its Use And
Demand In Industries

TAKING THE SOLIDWORKS TOUR

System Requirements
Starting Solid works In Windows
The Workbench Concept
Workbenches In Solid works
Adjusting The Solid works Interface
Creating And Managing Workspace



Graphic User Interface Of Solid works
Menu And Toolbars
Opening Files
Creating New Files
Keyboard Shortcuts
Selecting/Moving Objects With Mouse
Working With Planes
Properties Toolbar
Changing The Properties
Changing The Interface From 3d Modeling To 2d
Sketching And Vice-Versa
Uses & Description About Feature Manager
Design Tree
Working With Respect To UCS.
Setting Up The Document Options

EDITING SKETCHES

Sketch Fillet
Sketch Chamfer
Offsetting Entities
Converting Entities
Trim
Extending Entities
Jog



Mirror Moving Sketch Entities Moving Sketch Entities SOLIDWORKS INTRODUCTION OF DESIGN CONCEPT AND PROCEDURE Copying The Sketch Entities Rotating Sketch Entities Scaling Sketch Entities Stretching Sketch Entities Modify Sketch Close Sketch Of Model Sketch Picture Area Hatch / Fill Sketch Patterns Blocks Relations Automatic Relations Conflicts In Relations Dimensioning Dimension Property Manager Exiting The Sketch

SKETCHER

Getting Started With Sketch Creating Centerlines



Constructing Lines
Constructing Ellipse
Constructing a Circle
Constructing an Arc
Creating Slots
Creating Polygon
Creating a Parabola
Creating a Spline
Equation Driven Curve
Point
Creating Text
Creating Construction Geometry
Rapid Sketch
Continued..

5 PART MODELING

Terminologies Used In Part Environment
Entering The Part Module
Choosing The Sketch Plane
Extruding Boss / Base Features
Revolving Boss / Base Features
Creating Sweep Features
Creating Loft Features
Creating Cut Features
Selecting Geometrics In Solid Works
Modeling



REFERENCE GEOMETRY

Reference Planes
Creating New Planes
Creating Reference Axes
Creating Reference Points
Creating Reference Coordinate Systems
Editing Reference Geometries
Creating Curves

PLACED FEATURES

Creating Simple Holes
Creating Standard Holes Using The Hole Wizard
Creating Fillets
Creating Chamfers.
Creating Shell Features
Creating Rib Feathers
Creating Draft Feature
Creating Pattern

ASSEMBLY MODELING PLACED FEATURES

Types Of Assembly Design Approaches
Working With Solid Works Assembly Bottom-Up Approach
Positioning The Components In Assembly
Assembly Mates

Standard Mates
Advanced Mates
Mechanical Mates
Smart Mates
Mate Reference

9 SURFACE MODELING

Move Faces

Replacing The Assembly Components Rotating A Component Moving Components Detecting Interference Assembly Pattern Assembly Mirror Creating Exploded View Physical Simulation Top Down Design Assembly Performance Configuration In Assembly Smart Components Smart Fasteners Creating Mid-Surface Replacing Faces Deleting Faces Un-Trimming Surface Creating Knit Surface Thickening A Surface



SHEET-METAL MODELING

Fundamental Concepts Of Sheet Metal Design Using Sheet Metal Tools Creating Base Flange Creating Edge Flange Creating Miter Flange Creating Hem Creating Log Creating Break Corner/Corner-Trim Creating Closed Corners Creating Rip Creating Sketched Bend Creating Unfold/Fold Flattening Sheet Metal Bends Forming Tools Cross Break Welding Corner Inserting Corner Trim Convert to Sheet Metal Lofted Bend Vent Sheet metal Gusset Flatten





No bend, Insert bend, Rip

















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