

Introduction

- Dassault Systems & products
- CATIA, PLM & Industries using CATIA.
- Parametric / Feature based Modeling Concept
- Supported file formats (open /Import & save / export)
- Syllabus modules
- Starting CATIA its GUI
- Customization of workbench & entering a workbench
- Mouse Navigation
- General commands (new file, open, save, save as, close) & keyboard shortcuts & Mouse Gestures
- Design Intent

Sketcher Workbench

- Entering the Sketcher workbench Sketch & Positioned Sketch
- Toolbars
- Workbench
- Standard
- Sketch tools
- Profile
- Operation
- Constraint
- View
- Properties
- Extra toolbars like Visualization, Select, User selection Filter
- Customization & options
- General Display
- Parameters & measure
- Mechanical Design? Sketcher

Part design Workbench

- Common toolbars like standard, view, workbench, select
- Sketcher toolbar
- Sketch-based features (Pads, Pockets, Shaft, Groove, Hole, Rib, Slot, Solid Combine,
- Stiffener, Multi-Sections Solid, Remove Multi-Sections Solid)
- Dress-up features (Fillet, Chamfer, Drafts, Shell, Thickness, Thread/Tap, Remove Face)
- Transformation features(Translation, Rotation, Symmetry, Mirror, Patterns, Scaling
- Apply material toolbar

Wireframe & surface Design Workbench

- Common toolbars
- Wireframe toolbar (Points, Lines, Planes, Projection, Intersection, Spline, Connect, Helix, Circle)
- Surfaces toolbar (Extrude, Revolve, Sphere, Cylinder, Offset, Sweep, Fill, Multi-section, Blend)
- Operations toolbar (Join, Disassemble, Heal, Split, Trim, Boundary, Extract, Extrapolate Transformation)
- Surface & solids interaction Part Design Surface-Based Features Toolbar

Assembly Design Workbench

- Top-down & Bottom-up assembly Design approach.
- Common toolbars
- Product structure tools
- Move & manipulating parts using Compass.
- Constraints
- Assembly features
- Catalogue
- Measure.
- Tips & Workshop

Drafting Workbench

- Page setup & customization
- Layout & templates
- Common toolbars
- Generative design toolbars
- Geometry creation & modification, Tools
- Interactive design toolbars?
- Generating views & Generate BOM, Generate dimension
- Dress-up
- Dimensioning
- Annotations

SHEETMETAL DESIGN

- Introduction To Sheet metal Design
- Generative Sheet metal Design
- Entering The Sheet metal Workbench
- Process Of Sheet metal Designing
- Sheet metal Parameters & Its Importance
- Sheet metal Wall
- Types Of Walls
- Profile Based Wall
- Extruded Wall
- Creating A Multi-Connected Profile Walls
- Additional Types Of Walls
- Tangent Walls
- Creation Of Walls On The Edge
- What Is Bend
- Bending A Flat Sheet
- Folding & Unfolding Of The Faces
- Creating Relief On The Corner
- Flange & Its Types
- Features Of Sheet metal
- Creating Holes In Sheet
- Stamp & Its Role In Industry
- Standard Stamps
- Opening Faces Of Stamp
- Translating Created Sheet With Parameters
- Rotating Sheet metal Parts
- Pattern And Its Types
- Mirroring The Features
- Unfolded View

Project work is mandatory after the completion of the training program.

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