

TCA

TRAINING & DEVELOPMENT

MENTORTCA TECHNOLOGY PVT. LTD.

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Branch Office:

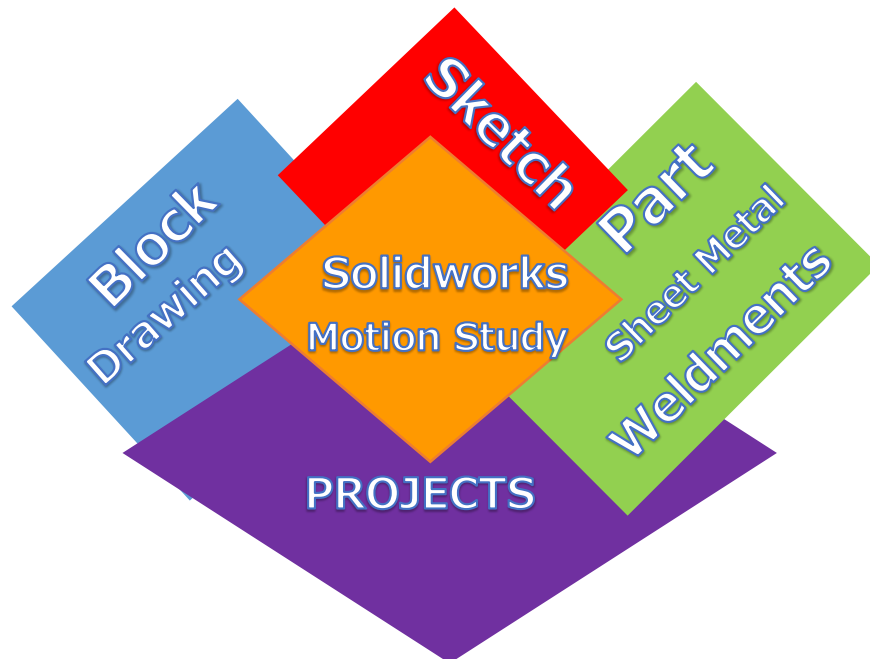
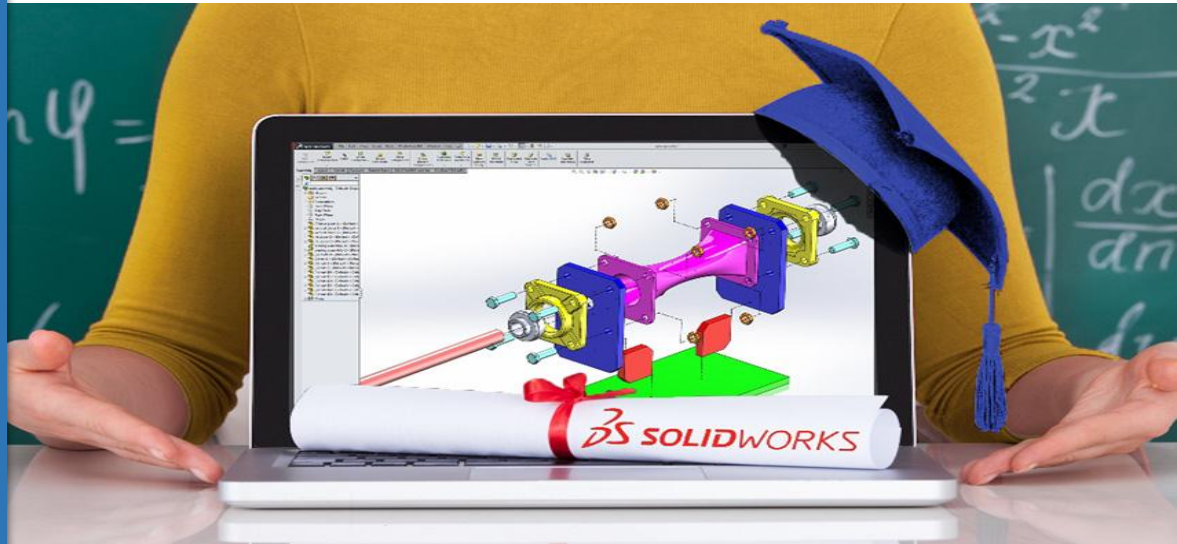
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INDUSTRY EXPERT TRAINER



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Introduction to PDC (Product Design Cycle) & CAD, CAM, CAE

- Introduce to SolidWorks
- Features of SolidWorks

SolidWorks Graphical User Interface:-

- ✓ Feature manager,
- ✓ Design tree,
- ✓ Callouts,
- ✓ Confirmation corner,
- ✓ Mouse buttons,
- ✓ Keyboard shortcuts,
- ✓ Command Manager.

Sketch Entities

- ✓ Line
- ✓ Circle
- ✓ Arc
- ✓ Ellipse
- ✓ Rectangle
- ✓ Text
- ✓ Construction geometry
- ✓ Slots
- ✓ Polygon
- ✓ Parabola
- ✓ Spline tools
- ✓ Points
- ✓ Snap
- ✓ Grid

Sketch Modifying Tools:-

- ✓ Fillet
- ✓ Chamfer
- ✓ Offset
- ✓ Dynamic Mirror
- ✓ Trim
- ✓ Extend
- ✓ Split

Modify Tools

- ✓ Make path
- ✓ Sketch picture
- ✓ Hatch
- ✓ Block
- ✓ Relation
- ✓ Dimension
- ✓ 3D Sketch
- ✓ Rapid Sketch

Part Modeling

- ✓ Extrude
- ✓ Revolve
- ✓ Swept
- ✓ Extrude cut
- ✓ Revolve cut
- ✓ Swept cut

Reference Geometries:-

- ✓ Plane
- ✓ Point
- ✓ Axis
- ✓ Co-ordinate

Loft & Loft Cut

- ✓ Loft
- ✓ Loft cut
- ✓ Boundary
- ✓ Boundary cut

Modify Tools in Part Modeling

- ✓ Simple Hole
- ✓ Hole Wizard
- ✓ Fillet
- ✓ Chamfer
- ✓ Patterns
- ✓ Rib
- ✓ Draft
- ✓ Shell

Create Curve

- ✓ Split curve
- ✓ Project curve
- ✓ Composite Curve
- ✓ Curve through Points
- ✓ Helix and Spiral

Modify Tools

- ✓ Wrap
- ✓ Dome
- ✓ Deform
- ✓ Shape Feature
- ✓ Mounting boss
- ✓ Snap hook
- ✓ Mirror
- ✓ Free form
- ✓ Indent
- ✓ Flex
- ✓ Snap hook groove
- ✓ Vent
- ✓ Library feature
- ✓ Mass properties

ASSEMBLY

- ✓ **Introduction to Assembly** : Top down and Bottom up
- ✓ **Apply Standard Mates** : Coincident, Parallel, Perpendicular, Tangent

Apply Advanced Mates

- ✓ Symmetric
- ✓ Width
- ✓ Path Mate
- ✓ Linear Coupler
- ✓ Limit Mate

Apply Mechanical Mate

- ✓ Cam
- ✓ Hinge
- ✓ Gear
- ✓ Rack Pinion
- ✓ Screw
- ✓ Universal Joint

Modify tools

- ✓ Adding Smart Mates
- ✓ Replace
- ✓ Rotate
- ✓ Move Components

Motion Study

- ✓ Creating Patterns
- ✓ Animation and Basic Motion
- ✓ Exercise

Day 31 Surface Modeling:-

- ✓ Extruded
- ✓ Revolved
- ✓ Swept
- ✓ Fill, Planar
- ✓ Offset, Ruled
- ✓ Delete Face
- ✓ Replace Face
- ✓ Knit Surface
- ✓ Cut with Surfaces
- ✓ Lofted
- ✓ Boundary
- ✓ Surface
- ✓ Fillet
- ✓ Extend, Trim
- ✓ Untrim Surface
- ✓ Thicken and thickened cut

Sheet Metal Design:-

- ✓ Base Flange and End Flange
- ✓ Miter Flange
- ✓ Hems
- ✓ Cross-Break
- ✓ Closed
- ✓ Welded
- ✓ Fold/Unfold
- ✓ Flatten
- ✓ Evaluate Features
- ✓ Creating Lofted Bends
- ✓ Jog
- ✓ Sketched Bend
- ✓ Break Corners /Corner Trim
- ✓ Extruded Cut
- ✓ Simple Hole
- ✓ Rip
- ✓ Convert to Sheet Metal

Rendering Tools

- ✓ Scenes
- ✓ Appearances
- ✓ Material properties
- ✓ Preview
- ✓ Final Rendering

Weldments

- ✓ 3D Sketch & Weldments

Drawing Mode

- ✓ 3 Standard views
- ✓ Model view
- ✓ Auxiliary view
- ✓ Projected view

Sectional View

- ✓ Section view
- ✓ Detail view
- ✓ Broken Out Section
- ✓ Break
- ✓ Crop view
- ✓ Alternate Position View

Dimensions & Annotations

- ✓ Smart
- ✓ Horizontal
- ✓ Vertical Chamfer Dimension
- ✓ Center Mark
- ✓ Centerline

Table & Bill of Material

- ✓ Tables
- ✓ Bill of Materials
- ✓ Hole Table
- ✓ Hatch fill
- ✓ Balloons

GD&T apply on Drawing

- ✓ GD & T
- ✓ Limits and fits

Project

Project and review (Live Project Automotive based)

- ✓ Minimum 5 hrs.