IFS ACADEMY

Training For The Future!!

CAD/CAM/CAE using Fusion 360

(Duration: 70 Hrs.)

Course Curriculum

CAD:

- Introduction to Autodesk Fusion 360
- Fusion 360 GUI
- Utilize Autodesk 360 to manage your designs
- Data Panel
- 2D Sketching: Sketch, Constraints and Dimensions
- Holes and Thread Features
- Fillets and Chamfers
- Mirror Features
- Construction Planes
- Pattern of Features
- Shell & Split Features
- Rib & Web Feature
- Apply joints to an Assembly
- Assembly Techniques
- Drawing Views
- Create Form
- Symmetry
- Bridge and Thicken Bodies
- Insert Crease & Edge
- Surfacing:
- Rendering
- Creating and stl (3D print) file
- Managing and Collaborating Fusion 360 Data

CAM:

- NC Part Programming
- Create Setups
- Apply 2D Operations
- Creating Toolpaths using Fusion 360
- Produce Setup Sheets
- Post Processing
- 2, 2.5, 3 Axis Machining

CAE:

- Introduction to Finite Element Analysis
- Steps in Finite Element Analysis
- Meshing
- Material Properties
- Loading & Boundary Conditions
- Static Structural Analysis
- Frequency Analysis
- Animation
- Reports

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