



# RMS SKILLS

#1 Engineer's Software Training Centre

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## HYPRMESH SYLLABUS

### ❖ Introduction about Hyper mesh

- Introduction to CAD.
- CAE Application of CAE Software.
- Advantages and Theory of FEM and Basic engineering and Shortcuts.

### ❖ Geometry

- Create node
- Node edit
- Temp nodes
- Distance
- Dimensioning
- Lines
- Line edit
- Length
- Creation of surfaces and surface edit
- Normal Translate and Rotate

### ❖ Auto – mid surface Extraction

- De – featuring
- Quick Edit

### ❖ GEOMETRY CLEAN

- Surface edges
- Visualization toolbar
- Display toolbar
- Clean up using quick edit

### ❖ Introduction to meshing

- Auto meshing
- Size & Biasing
- Density and mesh style
- Mesh connectivity
- Replace and Re-meshing
- Current and surface components

### ❖ 2D MESH QUALITY

- Quality criteria
- Warpage
- Aspect ratio
- Jacobian
- Skew

- Reducing the Trias percentage

## ❖ QUALITY INDEX

- Quality index
- T – Connections
- Duplicates
- Free – edges

## ❖ MANUAL MESH

- Ruled
- Spline
- Skin
- Drag
- Elem offset

## ❖ TOOLS

- Rename
- Order
- Number and mass calculation
- Project
- Position
- Rotate
- Translate
- Mask
- Unmask
- Check elements
- Faces
- Normals

## ❖ 3D HEX MESHING

- Introduction to 3D meshing
- Types of 3D elements
- Drag, spin, line drag & Elem offset

## ❖ 3D SOLID MESH

- Solid and solid edit
- Solid map commands
- Linear mesh
- Solid mesh

## ❖ 3D TETRA MESHING

- Introduction to tetra mesh
- Tetra parameters
- Tet collapse
- Remeshing

**WITH INDUSTRIAL LIVE PROJECTS**