



Enter as Trainees....  
Exit as Professionals

**CALL: 7676765421 , [info@inventateq.com](mailto:info@inventateq.com)**

ANSA COURSE CONTENTS	
Session	Topics
<b>Session 1</b>	<p><b>Introduction to FEM</b></p> <p><b>Basic interaction with ANSA</b></p> <p><b>Advantages of ANSA over Hypermesh</b></p> <ul style="list-style-type: none"> <li>• User interface</li> <li>• Opening/saving .jt files</li> <li>• Working with panels</li> <li>• Model organization</li> <li>• Display control</li> <li>• Keyboard shortcut settings</li> <li>• Selecting PID, Macro, PART etc</li> </ul> <p><b>Preparing geometry for meshing</b></p> <ul style="list-style-type: none"> <li>• Creating and Editing Solid Geometry</li> <li>• Delete elements, hot points, TOPO, Orient, Geometry Run</li> <li>• Importing and Repairing CAD</li> </ul>
<b>Session 2</b>	<ul style="list-style-type: none"> <li>• Simplifying Geometry</li> <li>• Midsurface generation</li> <li>• Geometry and Mesh Editing using Quick Edit Panel</li> <li>• Project, COG, Parametrical options, Setting MEL, TEL.</li> </ul>
<b>Session 3</b>	<p><b>Checking symmetry of CAD</b></p> <ul style="list-style-type: none"> <li>• Use of RmDbl</li> </ul>
<b>Session 4</b>	<p><b>Shell meshing (Sheet Metal)</b></p> <ul style="list-style-type: none"> <li>• Automeshing – meshing on surface geometry</li> <li>• 2D Mesh in curved</li> <li>• Swap, best, reconstruct, move free, erase, map, split options.</li> <li>• Zone cut, Numbering.</li> <li>• Project cut, cut, join etc</li> </ul> <p><b>Plastic meshing using Midcasting</b></p> <ul style="list-style-type: none"> <li>• Setting minimum length, TEL for plastic mesh.</li> </ul>



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<b>Session 5</b>	<b>2D Mesh Quality</b> <ul style="list-style-type: none"> <li>• Quality criteria, warpage, skew, Jacobian, Aspect ratio</li> <li>• Fix Quality option</li> <li>• Quality settings.</li> </ul>
<b>Session 6</b>	<b>3D Mesh</b> <ul style="list-style-type: none"> <li>• Creating Penta &amp; Hexa mesh.</li> </ul>
<b>Session 7</b>	<b>Batch Mesh</b>
<b>Session 8</b>	<b>Preprocessing for Crash and closure specific Analysis</b> <ul style="list-style-type: none"> <li>• Safety and closure specific quality criteria.</li> <li>• Capturing elements for safety &amp; closure specific criteria.</li> </ul>
<b>Session 9</b>	<b>Penetration Correction</b>
<b>Session 10</b>	<b>ANSA Solver Interfaces</b> <b>Review, Test and Project Discussion</b>