

# Introduction to ANSYS Fluent, Gambit and TGrid.

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**Duration:** (5 Days)

## **Course contents for Day 1 and Half of Day 2: ANSYS GAMBIT**

This course is designed for clients who have little to no experience with ANSYS FLUENT computational fluid dynamics (CFD) software.

GAMBIT is a pre processor and is used to meet the specific geometry and meshing needs of our users. This course includes both geometry modeling and mesh generation tools for structured, unstructured and hybrid meshing.

Course Topics Include:

- Introduction to Gambit
- Geometry creation
- Edge and Face meshing
- Volume meshing
- Boundary layers and size functions
- Meshing strategy
- CAD import and cleanup.

## **Course contents for Half of Day 2 and Half of Day 3: ANSYS TGrid**

TGrid is a highly efficient, easy-to-use, unstructured grid generation program. For input TGrid requires a discretized boundary mesh consisting of either nodes or edges in 2D, or nodes and triangular/quadrilateral faces in 3D.

This course helps introduces users with the basics of TGrid and the options for creating Tet and Hybrid meshes.

Course Topics Include:

- Introduction to Tgrid and User Interface
- Boundary Modification tools
- Volume meshing with Tetrahedra
- Hexcore meshing and Hybrid mesh Generation.

## **Course contents for Half of Day 3 through Day 5: ANSYS FLUENT**

The primary goal of this course is to cover the basics of working in the ANSYS Fluent software environment. All course material is designed to make users of ANSYS Fluent comfortable for calculating broad range of real-world CFD problems from start to finish. Users will have hands-on time to work through the entire simulation process, and learn about the range of physical models available along with the strengths and weaknesses of each option.

Course Topics Include:

- Solver Basics
- Boundary conditions
- Solver settings
- Heat Transfer
- Turbulence
- Multiphase
- User Defined Functions
- Moving zones.

Each course chapter is followed by "hands-on" workshops and exercises.

**Fee:** Rs 25000 /- + Applicable Taxes

**For more information / registration contact:**

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