

Training Agendas


Introduction Training in ANSYS Modules

ANSYS Fluent
ANSYS Meshing & ANSYS DesignModeler
ANSYS Mechanical


15.0 Release

The Fluid Dynamics icon features a blue, wavy, ethereal shape that resembles a liquid or gas flow, set against a light background.


Fluid Dynamics

The Structural Mechanics icon shows a dark purple gear with a glowing white and purple center, symbolizing mechanical components.

Structural Mechanics

The Electromagnetics icon consists of several concentric green circles with a white center, representing electromagnetic fields or waves.

Electromagnetics

The Systems and Multiphysics icon depicts a 3D structure of teal and black rectangular blocks, suggesting complex system modeling.

Systems and Multiphysics

Introduction & Welcome

Lecture 01: Introduction to CFD Methodology

Workshop 1 – Fluid Flow & Heat Transfer in a Mixing Tee

Coffee Break

Lecture 02: Cell Zones & Boundary Conditions

Lecture 03: Postprocessing

Workshop 2 – Postprocessing

Lunch Break

Lecture 04: Solver Settings

Lecture 10: Transient Simulations

Coffee Break

Workshop 3 – *chosen by the attendant, according to company's interests/applications*

Lecture 09: Best Practices for CFD

Lecture 06: Turbulence Modeling

Lecture 01: Welcome & Intro to ANSYS Support

Lecture 02: Introduction to Workbench

Lecture 03: Introduction to ANSYS Meshing

Workshop 1 – ANSYS Meshing Basics

Lecture 04: Meshing Methods

Workshop 2 – Introducing Meshing Methods

Coffee Break

Lecture 05: Global Mesh Controls

Workshop 3 – Using Global Mesh Controls

Lecture 06: Local Mesh Controls

Workshop 4 – Using Local Mesh Controls

Lecture 07: Mesh Quality

Lunch Break

Introductory Training for ANSYS DesignModeler follows...

Introductory Training for ANSYS Meshing is Concluded...

Lecture 03: Basics of DesignModeler

Workshop 3.1 – DesignModeler Basics

Lecture 04: Geometry Modelling

Workshop 4.1 – Modeling

Coffee Break

Lecture 05: Geometry Cleanup & Repair

Lecture 06A: Geometry Modelling for CFD

Lecture 06B: Beam & Shell Modelling

Workshop 6.1A – Geometry Cleanup (for CFD users)

Workshop 6.1B – Geometry Cleanup (for FEA users)

Lecture 06A: Geometry Modelling for CFD

Workshop 7 – advance workshops (execute 1 from the list)

7a. Parametric Mixing Tank (for CFD & FEA users)

7b. Automotive Aero (for CFD users)

7c. 2D Conical Combustion Chamber (for CFD users)

7d. Bracket (for FEA users)

7e. Pulley (for CFD & FEA users)

7f. Shell Modelling (for FEA users)

Lecture 01: Introduction

Lecture 02: Mechanical Basics

Workshop 2.1 – ANSYS Mechanical Basics

Coffee Break

Lecture 03: General Preprocessing

Workshop 3.1 – 2D Gear and Rack Analysis

Lecture 04: Meshing in Mechanical

Workshop 4.1 – Meshing Control

Lunch Break

Lecture 05: Static Structural Analysis

Workshop 5.1 – Linear Structural Analysis

Lecture 06: Modeling Connections

Workshop 6.1 – Contact Offset Control

Lecture 07: Remote Boundary Conditions

Workshop 7.1 – Remote Boundary Conditions

Lecture 08: Multistep Analysis

Workshop 8.1 – Multistep Analysis

Coffee Break

Lecture 09: Vibration Analysis

Workshop 9.1 – Free Vibration Analysis

Lecture 10: Thermal Analysis

Workshop 10.1 – Steady State Thermal Analysis

Lecture 11: Results and Postprocessing

Workshop 11.1 – Meshing Evaluation