

## CFD/FEA SIMULATION TRAINING

Analytical knowledge, fluid physics & numerics for a well-informed introduction

Career-integrated CAE courses to reliably plan, execute and assess fluid flow & mechanical simulations.

Do you want to improve products by optimizing their fluid dynamics or mechanical integrity? To master the process, you need to recognize that CAE simulations is much more than just using simulation software. The physical laws and models that the software builds on must be understood.

### CORE BENEFITS

- Learn to formulate simulation tasks more precisely
- Draw the right conclusions from simulation results
- Discuss complex CFD & FEA issues with experts

### COURSE OVERVIEW

LEVEL Advanced

TARGET GROUP CAE Professionals

#### PREREQUISITES

- Technical Graduates
- Experienced Professional

FEES RM550/day



### REGISTER NOW

Scan the QR Code and get directed to the registration form or visit <https://cae-consult.com/training>

For more information, please get in touch with

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## CFD COURSE CONTENT

### DAY 1

Geometry Modelling  
Cleaning up Model  
Introduction to Meshing  
Meshing Core Skill and Method

### DAY 3

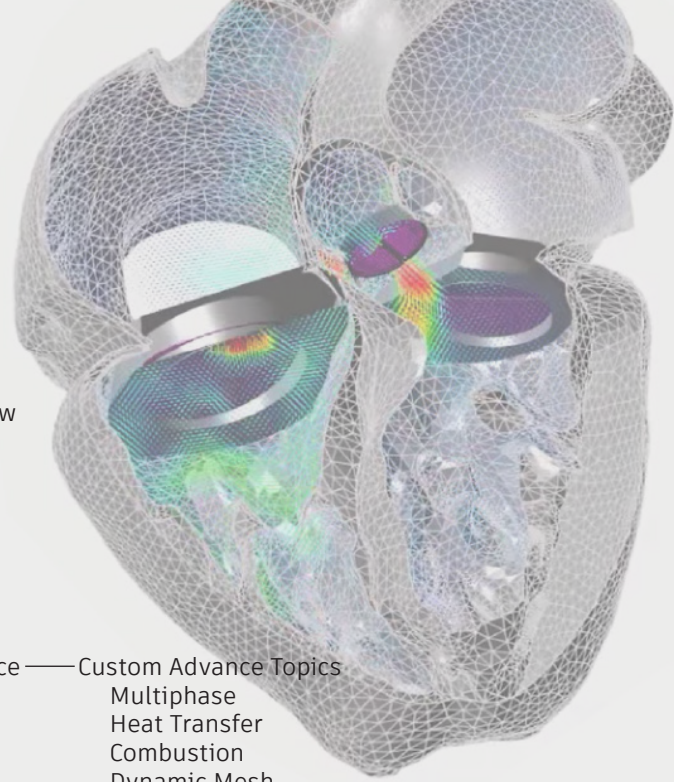
Transient Simulation  
Parameter Studies  
Turbulence  
Advance Topic Request

### DAY 2

Overview of CFD Workflow  
Setting up Domain  
Setting Up Physic  
CFD Post Processing  
Solver Setting

### DAY 4

Theory to Custom Advance — Custom Advance Topics  
Basic Setup  
Analysis and Validation  
Multiphase  
Heat Transfer  
Combustion  
Dynamic Mesh  
Fluid Structural Interaction  
CFD Design of Experiment



## FEA COURSE CONTENT

### DAY 1

Geometry Modelling  
Cleaning up Model  
Introduction to Meshing  
Meshing Core Skill and Method

### DAY 3

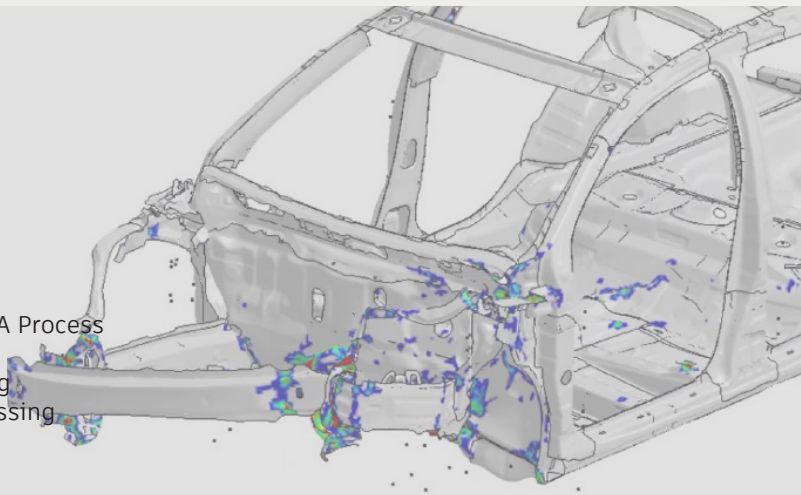
Modal Analysis  
Thermal Analysis  
Multistep

### DAY 2

Overview of FEA Process  
Preprocessing  
Analysis Setting  
FEA Post Processing

### DAY 4

Theory to Custom Advance — Custom Advance Topics  
Basic Setup  
Analysis and Validation  
Linear, Non Linear Dynamic  
Structural Non Linearities  
Heat Transfer Analysis  
FEA Design of Experiment



**Unravel  
Design  
Challenges**

CAE Consult is a medium-sized, multi-disciplined engineering consultancy providing innovative and reliable solutions to ensure a smooth pathway from 3D modeling to CFD & FEA simulation.

CAE Consult

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